jaycar

think. possible.

2019 Engineering and Scientific Catalogue

7000+ Products

420+ New Products

548 Pages

jaycar.co.nz

A letter to our customers:

We have been quietly working in the last 12 months to update the face of Jaycar.

As you can see by the cover, we have a new logo. There have been mixed feelings about letting the old masthead go, especially by me. We have spent millions to get the public to recognise our presence, including sporting sponsorships, charitable sponsorships and general largesse.

I sincerely hope that you will like it. The old logo and its early manifestations was almost 40 years old, and in the words of millennials that I speak to is "so last Century!"

Our new logo also reflects a new outlook for our retail development. During 2019 and beyond we will be upgrading many of our existing stores and building brand new stores that have a great emphasis on customer interactivity. What do we mean by this?

- We have incorporated the "Click and Collect" service to all stores by way of being able to collect pre-ordered goods over the counter. For more info on this see p5 inside.
- In addition to this some stores will be fitted with out-of-hours (and in hours as well) parcel lockers that are very similar to Post Office boxes. If you want to collect Jaycar goods out of hours, you can order the stock online and once you've received confirmation the goods are ready (as little as a few hours) you can collect them when it is convenient for you - even at say 2 o'clock in the morning!
- With 7,000+ active product lines, we are working on making the store layouts more organised and easier to shop, both by product type and application.
- Some existing stores, but mainly new stores, will have facilities where customers can have hands-on experience with many of our products. For example, people will be able to work on benches with Arduino & Raspberry Pi® microcontrollers and have hands-on connection and programming learning experiences under expert supervision. It will be very safe (no soldering irons) especially for the young enthusiast who may just be starting out in the world of electronics. Parent participation is welcomed.
- In conjunction with this, there will be an interactive projects display and we will be holding regular workshops in-store that cater for beginners through to intermediate. All are welcome.

This new activity, of course, is meant to dovetail into the Schools STEM programme. (Science, Technology, Engineering & Mathematics.)

Frankly, the STEM rollout programme across Australia has been patchy and uneven. We hope to work with the Education Authorities in that regard to see if we can help. Some schools, however, have been outstanding and we want to see these examples used as role models.

Whew! As usual we have not forgotten why Jaycar is an exciting place to visit (either in-store or online). In the following pages you will find hundreds of new products, including 3D printers and filament, an expanded range of Arduino and Raspberry Pi ® mainboards, shields and accessories. Our range of quality Concord products has grown to include more HDMI components and an exciting new family of CCTV surveillance products. There are more robots to build and code, higher capacity power banks and brighter work lights and torches. We have more UHD 4K compatible devices, Google and Alexa voice assist products and a Bluetooth® enabled version of just about everything… See p8-9 for more information.

On another front, we have opened three new stores since our last catalogue. These are Armadale, Auburn and Beenleigh. Some stores have been relocated to more convenient locations nearby.

Where there is not a Jaycar store, you can also check out a Jaycar Reseller. There are more Resellers across Australia and New Zealand than Jaycar stores! Check the inside cover of this catalogue for the one nearest you.

"NERD PERKS" Customer loyalty and reward programme. We have now grown to over 420,000 members across Australia and New Zealand.

This is testimony to the fantastic advantages that a Nerd Perk member gets over a non-member and we've just made changes to the reward part of the program to make it even better. If you are not in our Nerd Perks programme see p6 and go online or email today! Not only will you save money but you will get offers that the public does not see!

think. possible.

This is the new Jaycar byline. It replaced Better More Technical. Our old byline was a bit of a dig at the deteriorating technical service you got at Dick Smith stores in the latter stages of their existence. Now that DSE has effectively disappeared, our old byline is now moot!

Our new byline is very forward thinking, in keeping with the possibilities of the new (not so new now) millennium.

We asked our customers to submit their thoughts on what Think. Possible. meant to them and how they saw future developments in technology. We had a very pleasing and interesting response and a number of these emerged as winners of the competition we were running. See p 7 for details.

There were 3 major technologies that dominated the responses:

- Future directions in 3D printing
- Smartphone directions
- Drone technology directions

In this year's catalogue you will find what we think to be the best and most insightful future possibilities.

We would like to thank all participants in this successful exercise.

In closing I would like to personally thank you for shopping with us and giving us your loyal support. If you think that our competitiveness has slipped, tell us! We are fighting back from sometimes dodgy (but mainly ok) internet sites who sometimes offer goods at prices that are difficult to believe. We will do our very best to match or beat web-based suppliers but only if the playing field is level. (Often they only order stock for you once you have ordered. You can call into one of our shops on a Sunday afternoon and walk out with the goods.)

We look forward to being of further service to you in this exciting upcoming year.

Gary Johnston

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Visit your local jaycar store

With over 100 stores in Australia and New Zealand our network of retail stores continues to grow. Come and visit us at one of these locations - see our website or the back of our catalogue for full address, phone and trading hours details. Our friendly, experienced staff look forward to showing you our extensive range of products.

talk to the techstore

Phone or email your order to us at any time, or alternatively you may speak to one of our professional shop trained staff members who will be able to assist you.

0800 452 922

Our experienced Techstore staff are waiting to take your order. Techstore operates Monday to Friday 8.30am to 5.30pm and Saturday 10.30am to 5.00pm (NZST).

post your order

Enclose your completed order form (on page 525) and send to:

Jaycar
PO Box 12241
Penrose 1642 New Zealand

fax your order

(09) 276 1257

Complete your order form (on page 525) and fax it any time.

kit back catalogue

We maintain in our central distribution warehouse an extensive range of discontinued Electronic Project Kits. Place your order online for the Kit Back Catalogue kits. On our website each of these kits has a full description and, where available, a link to the original article on the Kit.

www.jaycar.co.nz/kitbackcatalogue

Products with this icon are not stocked in all stores but are easily special ordered in Store or online.

A video providing more information is available on our website and our YouTube channel.

More information, specs, drivers, or manuals for this product are available on our website.

This product includes some components that you have to build or assemble yourself.

Learn more with our vast range of books. Look out for this book icon or see our index on page 543.

We've permanently dropped the price on this product - we're passing on those savings to you.

NEW

This is a brand new product for the Jaycar 2019 Catalogue. We're excited to bring it into our ranges!

1 YEAR LIMITED WARRANTY

These icons indicate the Warranty of a product, or if located on the top right hand corner of a page, the Warranty for all the products on that page. Warranty only covers faults in manufacture, unless stated otherwise.

Raspberry Pi Compatible

Arduino® Compatible

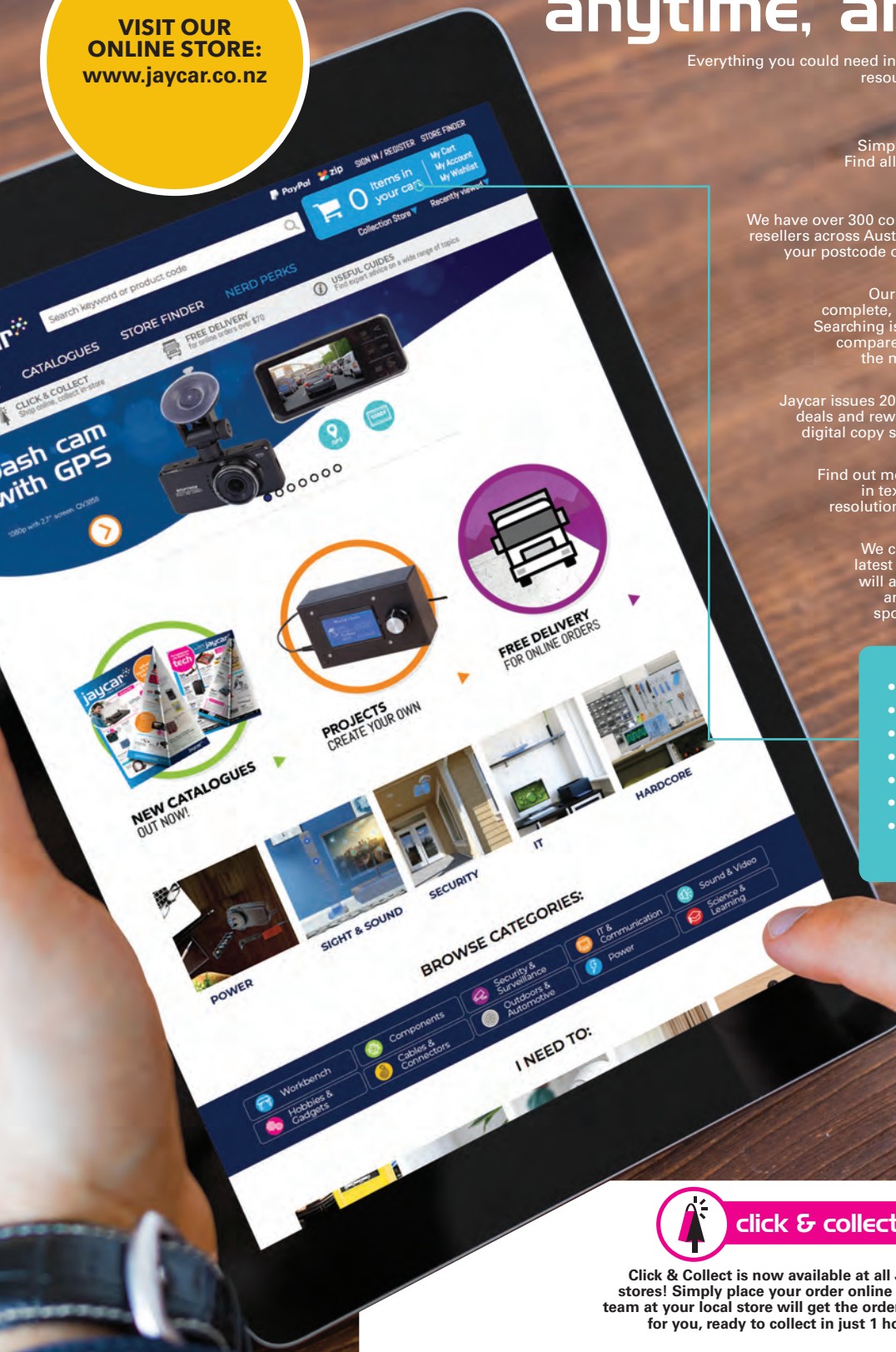
COMPATABILITY ICONS:
To assist you in selecting compatible products for your preferred microcontroller, we have created two icons. They should help you select appropriate modules and hardware. If in doubt, ask our friendly team.

Trademark Notice iPhone®, iPod®, & iPad® are trademarks of Apple inc. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. All other trademarks and copyrights are property of their respective owners.

search, browse & buy anytime, anywhere

Everything you could need in one convenient place - a convenient resource for all things Jaycar and related.

VISIT OUR ONLINE STORE:
www.jaycar.co.nz



SHOP ONLINE

Simple, reliable and saves tonnes of time. Find all the information you need, including special deals, before purchase.

STORE FINDER

We have over 300 company owned stores and authorised resellers across Australia and New Zealand. Simply enter your postcode or area to find the closest one to you.

FIND YOUR PRODUCTS

Our website is always live with the most complete, accurate and up to date information. Searching is a breeze, and relevant items can be compared side by side for you to always find the most suitable product for your needs.

FLYERS & CATALOGUE

Jaycar issues 20 flyers full of new products, specials, deals and rewards bonuses each year. Download a digital copy so you don't miss out on great offers.

MULTIMEDIA RESOURCES

Find out more about products and technologies in text, specifications, data manuals, high resolution pictures and demonstrative videos.

PRODUCT UPDATES

We constantly update with new products, latest promotions and clearance sales. You will also see special events and important announcements on the pages, such as sporting stars visiting your local stores!

- PRODUCT INFORMATION
- DATASHEETS
- MONTHLY ADVERTISING
- PROMOTIONS
- VIDEOS
- STORE LOCATIONS
- ONLINE EXCLUSIVE SPECIALS & DEALS

click & collect

Click & Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

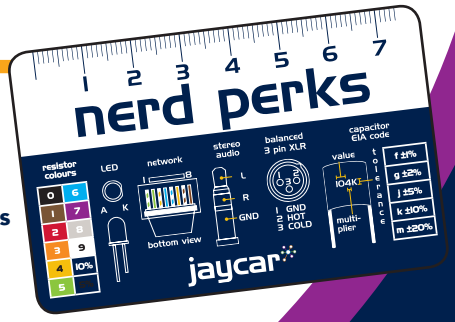
facebook.com/jaycarelectronics

twitter.com/jaycarnz

instagram.com/jaycar_electronics

youtube.com/user/JaycarVideo

Love Jaycar?
You're going to love our rewards.



Shop

In store & online

Earn Points

For dollars spent

1 point = $1

Get Rewards

eCoupons for future shops in store

200 points = $10 eCoupon

+ Offers

event invitations account profile and more...

www.jaycar.co.nz/nerdperks

join now!

gift card

Can't decide what to buy for that "hard to buy for" person? Give them a gift card!

Available in whole dollar values between $20 and $500.

Three year expiration from date of purchase*.

Gift cards issued by Jaycar stores or via the website are redeemable at any Jaycar company owned store or mail order call centre in the country of purchase.

Cards can be partially or fully redeemed for the purchase of goods, any balance not redeemed will remain on the card until the date of expiry.

www.jaycar.co.nz/giftcards

** Applies to gift cards purchased after 1st March 2018*

trade card

For professionals engaged in electronics & construction-related industries

- Electrician
- Repair & Installations
- Fit-out Technician
- IT Purchasing & Management

Save between 5-40% off retail for most items. Use in-store or via the Techstore. Accounts available for frequent purchasers. Requires valid ABN or equivalent.

www.jaycar.co.nz/tradecard

**Not available for transactions outside Australia and New Zealand. They are valid at Jaycar company owned stores ONLY. Products on special excluded.*

think. possible.

It's a simple statement, but when we asked you what it meant to you, you came up with some amazing answers.

Congratulations to our 10 winners, who each won a $500 gift card!

Five of them are listed here, but look throughout the catalogue where you can find the other 5 winners, as well as more great entries.

John Gowty

"I can envisage a miniature non invasive health monitoring system that could be worn to record in real time all the key body functions which could be transmitted to the individuals appropriate designated health professional in real time. This could device could have an alarm feature that could activate in an emergency situation."

Brendan Whitby

"As the price of 3D printers becomes more affordable I can see it becoming commercially viable that consumers will be able to purchase products online and then be able to print the product directly to their home printer. No waiting for delivery or missing parcels."

Wade Wilson

"The camera will pick up your face as you drive into the drive way, open the roller door, start your favourite spotify music or turn on the news if its that time, decrease the temp of the fridge so the beer is super cold, enjoy."

Duncan Sykes

"Augmented reality is the future of computing. Instead of looking down at a screen all the time, people will be able to interact with the environment around them as part of their computing experience. Over the next ten years Augmented reality devices will replace smartphones and personal computers."

Andre Pinheiro

"Virtual reality will take over not just in the gaming industry but also in the building planning and operational training spaces."

NEW

New Products

We have added many great new products this year. Here are some of them!

FLASHFORGE ADVENTURER 3 3D PRINTER WITH CLOUD PRINT MANAGEMENT
TL4256, PAGE 13

1.75MM FLASHFORGE PLA FILAMENT
PAGE 16

ARDUINO® UNO COMPATIBLE DEVELOPMENT BOARD WITH WI-FI
XC4411, PAGE 19

INSPECTION CAMERA WITH RECORD AND ILLUMINATION
QC8716, PAGE 226

SPHERO SPRK+ PROGRAMMABLE ROBOT IN A BALL
KJ9200, PAGE 66

ESD SAFE SOLDER/ DESOLDER REWORK STATION
TS1648, PAGE 202

MICRO:BIT GO DEVELOPMENT BOARD BUNDLE
XC4320, PAGE 25

RASPBERRY PI 3A+ SINGLE BOARD COMPUTER
XC9008, PAGE 22

RECHARGEABLE LITHIUM-ION SOLDERING IRON SET WITH CASE
TS1545, PAGE 199

STEM - TOBBIE THE ROBOT II KIT
KR9260, PAGE 67

CONCORD 4 CHANNEL HD DVR PACKAGE - 4 X 1080P CAMERAS
QV5000, PAGE 251

CONCORD 4 CHANNEL WIRELESS NVR PACKAGE - 4 X 1080P CAMERAS
QV5500, PAGE 258

CLIP-ON 1080P BODY CAMERA
QC8200, PAGE 272

BLUETOOTH® CONTROLLED PADLOCK WITH FINGERPRINT SCANNER
LA5140, PAGE 275

UHD CAR DASH CAMERA WITH GPS AND REAR CAMERA
QV3849, PAGE 284

NEXTECH 0.5W UHF TRANSCEIVER
DC1102, PAGE 320

SMART LOCK DEADBOLT KIT WITH BLUETOOTH TECHNOLOGY
LA5095, PAGE 276

AC1200 WI-FI MESH NETWORK BASE AND SATELLITE KIT
YN8560, PAGE 292

1080P WI-FI IP CAMERA WITH SECURITY ALARM
QC3870, PAGE 266

ALSO TO SUIT:

WIRELESS PANIC BUTTON
QC3872, PAGE 266

WIRELESS REED SENSOR
QC3874, PAGE 266

WIRELESS PIR
QC3876, PAGE 266

BATTLEBOTS® ROBOTS AND ARENA
GT4230, PAGE 524

BRASS MONKEY FRIDGE / FREEZERS
PAGE 505

OBSTACLE AVOIDANCE QUADCOPTER
GT4244, PAGE 521

LASER TAG BATTLE GUN 2 PACK
GT4074, PAGE 524

MINIATURE 1080P DV CAMERA WITH WI-FI
QC8102, PAGE 511

7" COLOUR TOUCHSCREEN WEATHER STATION
XC0434, PAGE 513

45W 5 - 19.5VDC SWITCHMODE PLUGPACK
MP3319, PAGE 340

AC POWER METER WITH LCD
QP2325, PAGE 354

SMART PLUG WI-FI CONTROLLED MAINS SWITCH
MS6106, PAGE 355

15,600MAH PORTABLE POWER BANK WITH USB TYPE-C AND DUAL USB-A PORTS
MB3806, PAGE 338

MULTI-STAGE CHARGER FOR LITHIUM AND LEAD ACID BATTERIES 12V 30A
MB3621, PAGE 385

4500 LUMEN RECHARGEABLE LED FLOATING SPOTLIGHT
ST3329, PAGE 426

220 LUMEN SOLAR RECHARGEABLE LIGHT WITH MOTION SENSOR
SL3512, PAGE 421

12.8V 100AH LITHIUM DEEP CYCLE BATTERY
SB2203, PAGE 377

5.1V 2.5A SWITCHMODE POWER SUPPLY FOR RASPBERRY PI
MP3536, PAGE 332

OUR LOWEST COST AA BATTERIES EVER

ECLIPSE PACK OF 24 ZINC CARBON BATTERIES
AAA SB2550, PAGE 372
AA SB2552, PAGE 372

WIRELESS AIR MOUSE REMOTE WITH VOICE ASSIST
AR1976, PAGE 449

TURNTABLE WITH CD PLAYER AND USB/MICROSD
GE4107, PAGE 458

SMART MEDIA PLAYER WITH VOICE ASSIST
XC6010, PAGE 437

PORTABLE DAB+ AND FM RADIO
AR1690, PAGE 461

WIRELESS EARPHONES WITH TWS AND BLUETOOTH®
AA2145, PAGE 454

4K WI-FI HDMI MIRACAST DONGLE
AR1924, PAGE 440

8 INCH RECHARGEABLE PA SPEAKER WITH BLUETOOTH®
CS2495, PAGE 492

2-IN-1 WATERPROOF 360° SPEAKER WITH TWS AND BLUETOOTH®
XC5242, PAGE 456

2 X 15WRMS COMPACT STEREO AMPLIFIER WITH BLUETOOTH®
AA0522, PAGE 465

50M & 100M HDMI 4K FIBRE OPTIC CABLES
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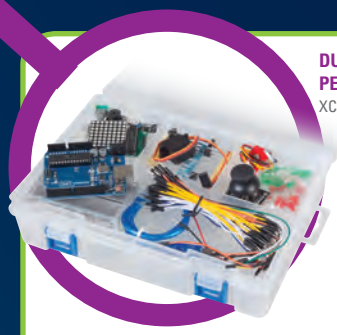
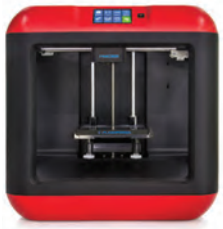
Best Sellers

Some of the most popular items from our huge range.



DUINOTECH LEARNING KIT - PERFECT FOR BEGINNERS
XC3900, PAGE 19



FLASHFORGE FINDER 3D PRINTER
TL4220, PAGE 12

10W SOLDERING STATION - 240VAC
TS1610, PAGE 201

27 PIECE SMARTPHONE REPAIR KIT
TD2118, PAGE 212

PCB HOLDER WITH LED MAGNIFIER
TH1987, PAGE 205

AUTORANGING TRUE RMS DMM WITH NON-CONTACT AC DETECTION
QM1321, PAGE 230

ECONOMY NON-CONTACT THERMOMETER
QM7215, PAGE 240

3 WAY CIGARETTE LIGHTER SOCKETS WITH USB POWER AND VOLTMETER
PP2120, PAGE 410

RGB LED FLEXIBLE STRIP LIGHT - 5M
SL3942, PAGE 416

12V 5W SOLAR PANEL WITH CLIPS
ZM9050, PAGE 395

MAINS POWER METER WITH EXTENDABLE LCD DISPLAY
MS6108, PAGE 354

12/24V 10A PWM SOLAR CHARGE CONTROLLER AND USB
MP3750, PAGE 401

3.7V 18650 PROTECTED 2600MAH LI-ION RECHARGEABLE BATTERY
SB2299, PAGE 368

150W CUP POWER INVERTER WITH 4.2A DUAL USB OUTPUT
MI5128, PAGE 390

0 TO 30VDC, 0 TO 5A REGULATED POWER SUPPLY
MP3840, PAGE 349

5W PORTABLE LED WORK LIGHT
SL2869, PAGE 422

TOBBIE HEXAPOD ROBOT KIT
KJ9031, PAGE 67

MINI NETWORK CABLE TESTER WITH POE FINDER
XC5084, PAGE 300

1080P CAR DASH CAMERA
QV3845, PAGE 284

SWANN 8 CHANNEL 1080P DVR KIT WITH 6 X 1080P PIR CAMERAS
QV9005, PAGE 260

AC1200 DUAL BAND WI-FI RANGE EXTENDER
YN8372, PAGE 293

2.4GHZ DIGITAL WIRELESS 4.3" REVERSING CAMERA
QM3840, PAGE 285

720P OUTDOOR TRAIL CAMERA
QC8041, PAGE 273

UNIVERSAL HDMI CABLE FOR SMARTPHONES
WC7650, PAGE 304

5W UHF TRANSCEIVER
DC1068, PAGE 322

FM TRANSMITTER WITH BLUETOOTH® TECHNOLOGY AND USB
AR3140, PAGE 495

4K HDMI 2.0 AMPLIFIED CABLES
PAGE 440

2.4GHZ WIRELESS STEREO HEADPHONES WITH TOSLINK
AA2036, PAGE 451

UNIVERSAL REMOTE CONTROL FOR AIR CONDITIONERS WITH BACKLIT LCD
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COMPACT WORLD BAND PLL RADIO WITH SSB
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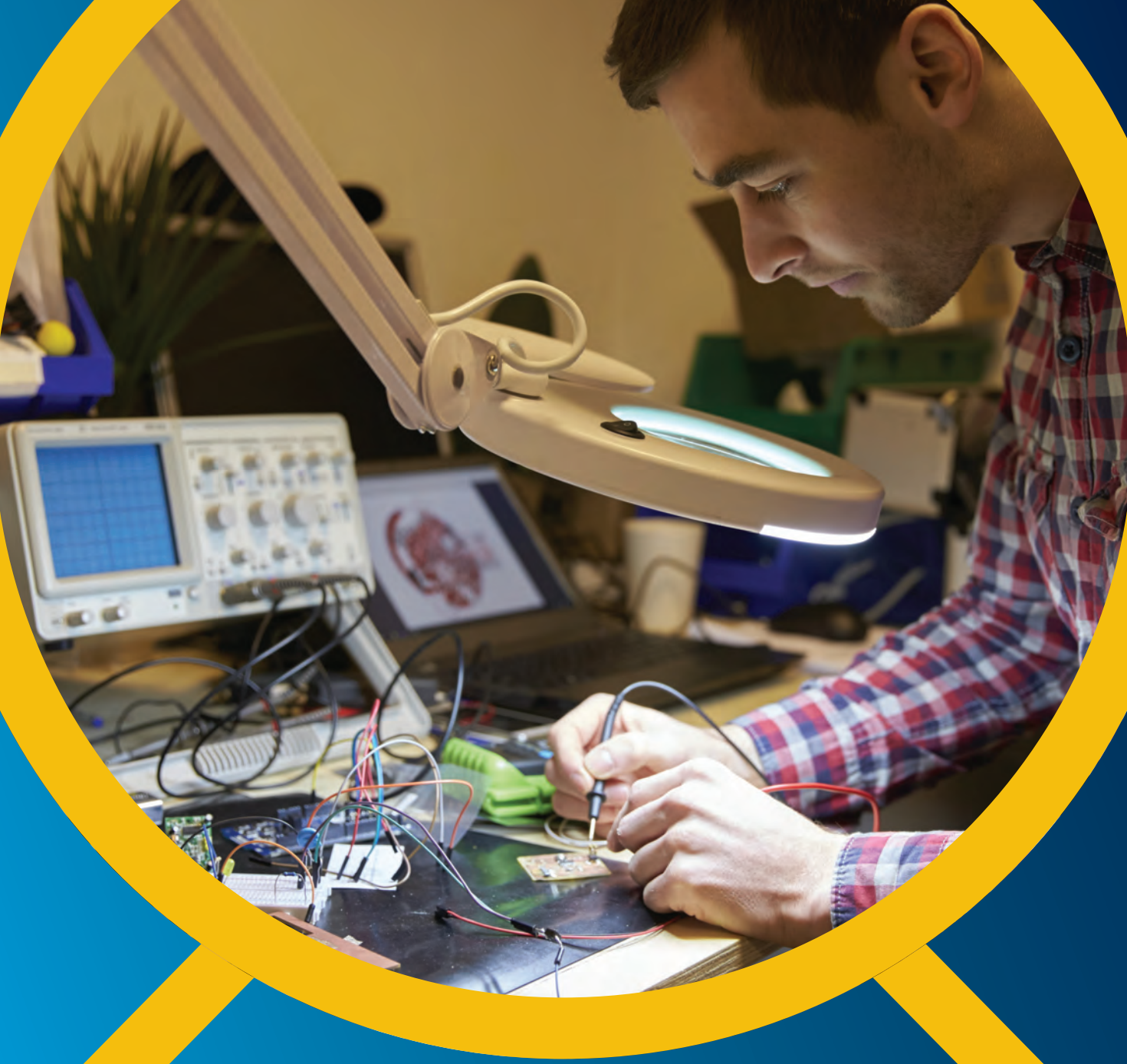

hardcore

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projects and learning

the next generation

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3D revolution:

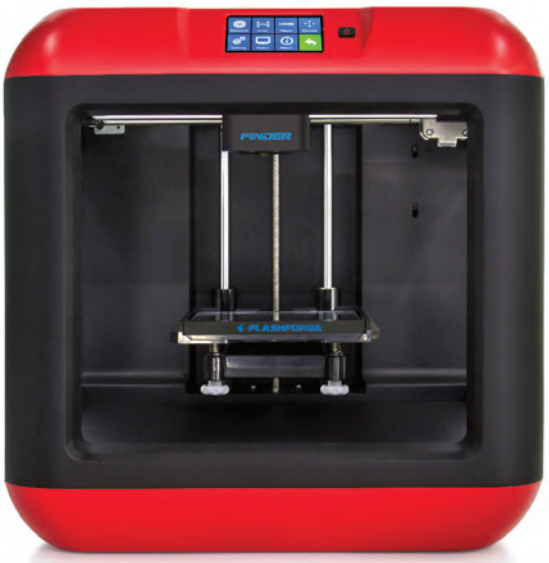
3D printing really isn't brand new technology now. We've sold 3D printers for a number of years, after all. Perhaps the biggest thing that has changed however, is the quality, and reliability of their output.

Jaycar's range of 3D printers, scanner & pen represent fantastic value for money with amazing features and reliability. Now you can find a suitable printer that fits your own unique prototyping requirements, as well as your budget.

FLASHFORGE FINDER 3D PRINTER

The Finder is the easiest-to-use 3D printer so far. Supplied fully assembled the Finder has a very clean design with cables concealed from sight within the plastic alloy frame. All the heated components are kept away from touch. With its assisted levelling system, you just need to do a few tweaks before starting prints.

Single non-toxic PLA filament option keeps your creations simple and fun. Low noise operation of 50dB or even less. Featured with a 3.5-inch touchscreen panel, filament-run-out detection, 2nd Generation Wi-Fi connection, and more. Finder delivers you a top-notch user experience that other 3D printers cannot.



Wi-Fi

SPECIFICATIONS	TL4220
Printing Technology	FFF (Fused Filament Fabrication)
Build Volume	140(L) x 140(W) x 140(H)mm
Layer Resolution	0.1 - 0.5mm
Positioning Precision	XY = 11 microns Z = 2.5 microns
Filament Diameter	1.75mm
Nozzle Diameter	0.4mm
Frame & Body	Plastic Alloy
Extruder Quantity	One
Product Dimension	420(L) x 420(W) x 420(H)mm
Product Weight	20kg
Software & Firmware	FlashPrint
Operating Systems	Windows 7/8/Vista, MacOS®
Connectivity	Wi-Fi, USB Cable, USB Stick
Power	115-230VAC, 50-60Hz, 150W

1 YEAR WARRANTY

STEM

Cat.	Qty 1+
TL4220	$679.00

3D Printers CONTINUED

FLASHFORGE ADVENTURER 3
3D PRINTER WITH CLOUD PRINT MANAGEMENT

The Adventurer 3 3D Printer is the new generation desktop 3D printer from Flashforge. It features a removable print bed, cloud print, detachable nozzle, and built-in camera, which is perfect as a teaching tool and great for domestic or commercial use.

- Lightweight and compact design.
- Detachable nozzle: remove nozzle just in one clip; stainless steel tube material, fast heating up to 200°C in 50 seconds
- Auto filament feeding with an enclosed built-in filament cartridge.
- Removable and flexible heated print bed.
- 45 Db, ultra-quiet during operation.
- Built-in 2 mp HD camera for remote monitoring
- Full-colour touch-screen with simple UI interface design
- 3D Cloud, an integral 3D printing resource platform - Get free storage(register online), backup and share files, interact with other users, automatically slice print files, free model database
- Online management - transfer, monitor, and manage multiple printers effortlessly

SPECIFICATIONS	TL4256
PRINTING	
Build Volume	150 x 150 x 150 mm
Layer Resolution	0.1 - 0.4mm
Nozzle Diameter	0.4mm
Max. Print Bed Temperature	100°C
MECHANICAL & DIMENSIONS	
Extruder Quantity	Single
Frame & Body	ABS/PC
SOFTWARE & ELECTRICAL	
Software	FlashPrint
Connectivity	USB Stick/Wi-Fi/Ethernet/Clould Printing

1 YEAR WARRANTY

Wi-Fi

STEM

	Cat.	Qty 1+
	TL4256	$999.00

FLASHFORGE INVENTOR
DUAL FILAMENT 3D PRINTER

The Inventor is a filament-based 3D printer with a totally-enclosed design that is safe to use indoors and around children. It features a stunning 50 micron print resolution for head-turning quality. Five cooling fans are equipped with a temperature activated sensor that regulates the build chamber temperatures. Tired of printing with ABS and PLA, you can also try soluble filaments or even exotic filament such as flexible or composite materials with the Inventor. Oh no, you left the office for the day and had a power outage, no problem with the Inventor, as the resume print feature will get back to printing once power has been restored. The Inventor features a built-in camera so you can monitor the progress of your prints remotely. Simply download and connect to the mobile app to see your design come to life.

- Patented Dual-Extruder Structure
- Support dual-colour and dual-material printing.
- Efficient Slicing Software
- FlashPrint, the mainstream slicing software used by FlashForge, has gained outstanding reviews by the media and professionals

SPECIFICATIONS	TL4230
Printing Technology	Fused Filament Fabrication (FFF)
Build Volume	230(L) x 150(W) x 160(H)mm
Positioning Precision	XY: 11 microns
Layer Resolution	0.1 - 0.4mm
Nozzle Diameter	0.4mm
Filament Diameter	1.75mm
MECHANICAL & DIMENSIONS	
Frame & Body	Plastic Alloy
Printer Dimensions	485(L) x 344(W) x 382(H)mm
Extruder Quality	Two
Product Weight	14.8kg
Software & Electrical	
Software & Firmware	FlashPrint
Connectivity	Wi-Fi, USB cable, SD card
Operating System	Windows XP/Vista/7/8/10, Linux, MacOS®
AC Input	100V-240V, 4.5A-2.5A

Wi-Fi

STEM

	Cat.	Qty 1+
	TL4230	$1,799.00

For next day delivery, or Click and Collect, see page 5

3D Printers CONTINUED

FLASHFORGE GUIDER II EXTRA LARGE 3D PRINTER

Guider II is a professional FFF (Fused Filament Fabrication) 3D printer. With an all-metal frame design and body side panels made of high-strength ABS material, the Guider II not only has a stable print performance, but also lightweight and durable. Perfect for the architectural and construction sector, science research, manufacturing industries and education.

FlashPrint, the mainstream slicing software used by FlashForge, has gained outstanding reviews by the media and professionals. The software further offers an expert mode, which allows dozens of parameters to be set by the user, for greater printing flexibility. With the external/internal compensation feature the dimensional errors are reduced to 0.02mm.

- Innovative Extruder System – completely encased air supply system to elevate printing smoothness
- Heatable Build Plate – supports multiple mainstream filament types for diverse printing needs
- Touch Screen – Guider II is equipped with a 5-inch full colour touch screen and multilingual user interface.

SPECIFICATIONS	TL4240
Technology	Fused Filament Fabrication (FFF)
Build Volume	280x250x300mm
Extruders	Single
Extruder Temperature	0-240°C
Layer Resolution	±20mm
Positioning Precision	XY: 11 microns; Z: 2.5 microns
Layer Thickness	0.1 - 0.5mm
Nozzle Diameter	0.4mm
Print Speed	24cc/h
Heat Plate Temperature	0-120°C
Screen	5" full color IPS touchscreen
Power	110V/230V (adjustable); 500W
Overall Size	549(L) x 490(W) x 561(H)mm (excludes top lid)
Connectivity	USB Cable/USB Dongle/Wi-Fi/Ethernet
Operating System	Windows XP/Vista/7/8, MacOS® X/Linux
Slicing Software	FlashPrint

Cat.	Qty 1+
TL4240	$2,799.00

3D Scanner

XYZ HANDHELD 3D SCANNER

Turn your physical world into digital replicas, where you can modify them, and then reproduce them with 3D printing. Need to replace that broken part that you can't find in stores? Want to make a gift for someone but don't know how to 3D model it? Simply scan the desired objects to recreate them in different sizes, or change it completely to create new ones! The XYZ printing Handheld 3D Scanner has a compact and light design which allows you to move it around the desired target for scanning with ease. No large, complicated equipment necessary!

SPECIFICATIONS	TL4250
Scan Engine	Intel® RealSense™ Camera
Maximum Scan Volume	100cm x 100cm x 200cm (WxDxH)
Minimum Scan Volume	5cm x 5cm x 5cm (WxDxH)
Scan Resolution	1.0 ~2.5mm
Colour Image Size	640 x 480 @ 30 FPS
Operating Range	30 - 70 cm
Data Interface	USB 3.0
Dimension	41 x 157 x 61 mm
Weight	238g
Output File Types	XYZscan Handy/.stl, .obj, .ply
Operating System	Windows 8.1 and above (64-bit)

Cat.	Qty 1+
TL4250	$459.00

3D Printing Pen

XYZ DA VINCI 3D PEN COOL

Compared with other 3D pens on the market, the XYZ da Vinci 3D Pen Cool is specifically designed for children 6 years and above thanks to its safety features. It uses non-toxic filament (PCL) that prints with low heat and leaves no mess.

USB POWERED FOR PORTABILITY

You can start 3D drawing right after powering on and loading the filament. The 3D Pen uses a Micro USB charging cable and its compact design lets you move it around easily so you can draw comfortably. Use on a Power bank for added portability.

TWO EXTRUSION MODES

The XYZ da Vinci 3D Pen Cool has two extruding modes, Controlled Mode and Auto extrusion mode. Controlled mode puts you in charge of the rate of extrusion while the Auto Mode prints continuously for convenient printing. These modes help you decorate objects such as mugs, plastic containers and toys easily.

SPECIFICATIONS	TL4252
Print Technology	Fused Filament Fabrication
Nozzle Diameter	12mm
Filament Type	PCL
Dimension	180(L) x 26(W) x 27.4(D)mm
Weight	72g
Input Voltage	5V at 2A

Cat.	Qty 1+	Qty 5+
TL4252	$149.00	$133.90

Filament Guide

Over these pages you can see that Jaycar sells an extensive range of 3D printer filaments from standard PLA to exotic filaments, including conductive, flexible and glow-in-the-dark. If you're wondering which filament to purchase, looking to fine-tune your printer, or just curious to find out what options are available have a look at the table below. Our in-house boffins have tested our filaments under all sorts of conditions to work out exactly what the best settings are for printing. We've listed recommended bed and nozzle temperatures, and other suggestions to get the best out of your filament.

	Type:	Extruder Temp	Bed Temp	Notes:
TL4110, TL4112, TL4114, TL4116, TL4118, TL4120, TL4122, TL4138, TL4060, TL4062	PLA	180-220	20-55	PLA (Polylactic Acid) is one of the two most commonly used 3D printing filaments (with the other being ABS filament). It is the "default" recommended material for many 3D printers with good reason - PLA is useful in a broad range of printing applications, has the virtue of being both odourless and low-warp, and does not require a heated bed. PLA filament is also one of the eco-friendlier 3D printer materials available; it is made from renewable resources E.g. corn-starch, sugar cane. PLA plastic is often used in food containers, such as candy wrappers, and biodegradable medical implants, such as sutures. PLA filament for 3D Printing is available in a wide range of colours in both 1.75mm and 3mm.
TL4070, TL4072	ABS	220-235	80-110	ABS (Acrylonitrile Butadiene Styrene) is another commonly used 3D printer material. Best used for making durable parts that need to withstand higher temperatures. In comparison to PLA filament, ABS plastic is less "brittle" and more "ductile." It can also be post-processed with acetone to provide a glossy finish. When 3D printing with ABS filament, a heated printing surface is recommended, as ABS plastic will contract when cooled leading to warped parts. ABS filament is available in both 1.75mm and 3mm.
TL4152, TL4154, TL4155, TL4156	PET	210-230	35-60	PET (Polyethylene Terephthalate) is a versatile and lightweight filament used in 3D printing. This material is predominately used to produce plastic bottles and other food packaging as it can be 100% recycled. It is stronger and more flexible than ABS and PLA filaments. This filament has a higher print success rate in comparison to PLA. It has a high level of optical transparency (90%) and resolution. PET is easy to handle and is ideal for anything functional that needs to be robust with a degree of flexibility.
TL4134	Glow in the Dark	180-240	20-80	Glow-in-the-dark filament is a great product to decorate children's bedrooms, from glowing light switches to a starry sky on the ceiling. Your prints will shine brightest immediately after turning out the lights, but dim quickly to a soft glow in the night. Use your normal print settings for PLA, but add more perimeters to your prints. The more perimeters, the more glow. Glow-in-the-dark filament is available in PLA filament 1.75mm.
TL4136	Flexible	210-225	20-55	TPE filament is a flexible 3D printing material that feels and acts much like flexible rubber. TPE filament can be used to make parts that can bend or must flex to fit their environment: stoppers, belts, springs, phone cases, and more. Due to its flexibility, much slower print speeds must be used to keep the filament from binding in the extruder- we print at 20% speed.
TL4124	Wood	175-250	30-50	This is a wood-like 3D printer materials that give 3D printed objects the look and feel of fibreboard. They imbue parts with other wood-like attributes, such as the ability be cut, painted, and sanded. These filaments use PLA as their base, and mix other materials (usually in powder form) into them. The PLA gives the 3D printer compatibility and ease of use while the material contributes to the look, feel, and properties of the filament. With these organic fills, be cautious of too high of a temperature, as it will result in the wood burning which will give you a darker coloured print. It is important to remove the filament from the extruder fairly soon after finishing a print, as the filament will begin to burn in the nozzle and start to clog it.
TL4140	Conductive	215-230	20-50	Conductive Filament is a modified PLA, designed for low voltage and low current circuitry. Conductive PLA filament is available in 1.75mm. Note: Due to the additive in this filament, it is very brittle and should be handled with care.
TL4142	Wax	80-180	20-50	The wax based filament has a glossy appearance like wax, but a slightly soft rubbery feel because of the binders used to help it extrude. As you can imagine, it softens and melts at a much lower temperature than other filaments. Could be used to create lost wax models for casting, or even directly print an easily removable negative for direct casting.
TL4126, TL4128, TL4130, TL4132	Metallic	195-220	20-50	These metals infused PLA filaments are tougher to print than Standard PLA filament, but because of the metal blended with the plastic, prints are heavier and thus, feel more authentic. Finished 3D prints can be sanded and polished to create beautiful and unique pieces. Unpolished, the filament looks like cast metal fresh from a mould, with a dull, matte, gritty appearance. With just a little finishing and polishing, however, you can easily create any look like you desire. 3D Printing with these metals is perfect for printing jewellery, props, costumes, figurines, and robots. These filaments are great not only for hobbyists looking to make faux metal prints, but serious designers as well.

3D Printer Standard Filaments

TL4070 TL4060

ABS - 1KG ROLL:

Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	1kg	TL4070	$74.90	$67.40	$59.90

PLA - 1KG ROLL:

Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	1kg	TL4060	$67.90	$61.00	$54.30
3.00mm	Black	1kg	TL4062	$67.90	$61.00	$54.30

1.75MM PET 3D PRINTER FILAMENT

250g roll of 1.75mm PET filament for 3D printers. Recyclable PET is a stronger alternative to PLA and doesn't smell as bad as ABS when printing. There's four variants of PET available, red, blue, green and yellow, and they are all translucent, giving a stand-out look to your 3D prints.

TL4152 TL4154 TL4155 TL4156

	Cat.	Qty 1+	Qty 3+	Qty 6+
Red	TL4152	$22.90	$20.90	$17.90
Yellow	TL4154	$22.90	$20.90	$17.90
Green	TL4155	$22.90	$20.90	$17.90
Blue	TL4156	$22.90	$20.90	$17.90

All prices are in New Zealand Dollars

For next day delivery, or Click and Collect, see page 5

3D printer exotic filament:

Our range of exotic filaments are sure to appeal to anyone interested in 3D printing. There's filament that makes your creation look like it's made from wood, glow-in-the-dark, flexible and colour changing filament when heat is applied, and more. Imagine the possibilities with the conductive filament! All of our exotic filaments are 1.75mm, supplied in 250g rolls, and are all suitable for our current and superseded 3D printers.

- 250g Roll

Note: Exotic filament not suitable for our 3D pen.

CONDUCTIVE 3D PRINTER FILAMENT

Bring your 3D printed projects to life with this electrically conductive PLA filament! Bulk resistivity is 0.6g.cm - note that this is not the same as "grams per centimetre", but refers to the resistance of a 1cm cube across opposite sides with full contact. The filament itself measures about 4k ohms per metre, so it is mostly suitable for signal level voltages, but it is conceivable that you could illuminate some LEDs for example. The conductive properties come from graphene embedded in PLA which is a biodegradable.

Note: Due to the additive in this filament it is very brittle and should be handled with care.

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Conductive	1.75mm	TL4142	$24.90	$22.40	$19.90

WOOD FINISH 3D PRINTER FILAMENT

Perfect for recreating antique furniture and recreating small wooden features. Prints with a smooth finish that is ideal for painting, or even finishing with a wood-burning tool. The colour also suits models of animals and natural creatures.

- Contains wood, so models smell like wood
- Can be printed at different temperatures to give different colours

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Wood	1.75mm	TL4124	$24.90	$22.40	$19.90

COPPER FINISH 3D PRINTER FILAMENT - TL4126

Did you know that the Statue of Liberty is made of copper? Now you can recreate any similar structure (miniaturised version of course) with this filament. Combine with Brass Finish Filament (TL4130) for creating steampunk works, or brush with some green paint to give a classic corroded copper patina.

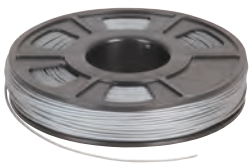
- Contains copper, giving models weight and excellent thermal properties

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Copper	1.75mm	TL4126	$34.90	$31.90	$27.90

ALUMINIUM FINISH 3D PRINTER FILAMENT

Ideal for printing a classy looking enclosure for your next project. Could also be used to imitate silver or stainless steel. Gives a metallic look without the unwieldy weight normally associated with solid metal objects.

- Contains aluminium



	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Aluminium	1.75mm	TL4128	$34.90	$31.90	$27.90

3D Pen Filament

XYZ 3D PEN COOL FILAMENT PACK

The PCL filament rolls for the da Vinci 3D Pen Cool are non-toxic, biodegradable, and have a lower melting point so the da Vinci 3D Pen Cool does not have to reach high temperatures in order to print. The filament box for the da Vinci 3D Pen Cool contains 9 rolls. Unit roll length is 8 metres.

	Cat.	Qty 1+
	TL4254	$49.90

GOLD FINISH 3D PRINTER FILAMENT

Gold colour only. This filament is every costume jeweller's dream come true! Your imagination will be the only limit as you recreate your favourite bracelet, ring or brooch. Create your own gold trophy or medal and thank yourself for a job well done.

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Gold	1.75mm	TL4132	$24.90	$22.40	$19.90

GREEN GLOW IN DARK 3D PRINTER FILAMENT

Print your own bedroom skyscape or other novelty items with glow in the dark filament. Glows after exposure to most light sources.

- White material glows green

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Green Glow in the Dark	1.75mm	TL4134	$24.90	$22.40	$19.90

FLEXIBLE 3D PRINTER FILAMENT

If you're looking to print something with a bit of bendiness, try our flexible filament. Has excellent adhesion and prints well without splitting. Due to increased flexibility, printer may need modification to guide filament correctly.

- Pale pink skin-like colour

	Diameter	Cat.	Qty 1+	Qty 3+	Qty 6+
Flexible	1.75mm	TL4136	$24.90	$22.40	$19.90

Flashforge Filament

1.75MM FLASHFORGE PLA FILAMENT

The best, most consistent and most tested PLA filament engineered and manufactured by FlashForge perfect for use with FlashForge's 3D printer range. Made with high quality PLA material to ensure smooth feeding and extrusion. All FlashForge filaments are tested to minimize the chance of jamming to extruders. Use with confidence!

Colour	Weight	Cat.	Qty 1+
Black	600g	TL4260	$28.90
Blue	600g	TL4261	$28.90
Green	600g	TL4262	$28.90
Red	600g	TL4263	$28.90
Clear	600g	TL4264	$28.90
Orange	600g	TL4265	$28.90
White	600g	TL4266	$28.90
Black	1kg	TL4270	$45.90
Blue	1kg	TL4271	$45.90
Green	1kg	TL4272	$45.90
Red	1kg	TL4273	$45.90
Clear	1kg	TL4274	$45.90
Orange	1kg	TL4275	$45.90
White	1kg	TL4276	$45.90

3D Printer Accessories

FLASHFORGE 3D PRINTING TOOL KIT

NEW

Keep your 3D printer in good working order with this comprehensive toolkit. It includes commonly required tools that you need to service your printer or to unclog a blocked print head. Print heads blockages are common in 3D printing so this kit can save you a lot of time and frustration, and have you back printing quickly.

The kit includes:

1 x Phillips Screwdriver
1 x Flathead Screwdriver
1 x Pliers with cutters
1 x Long Flatnose Pliers
1 x Long rounded Hex
1 x Push tool
1 x Curved Scraper
1 x Glue stick
1 x Silicon Grease satchel
1 x Nylon Tube
1 x 0.4 Wire unclog
1 x Nozzle Spanner
1 x Butane Torch

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2132	$56.90	$50.90	$44.90

3D Printer Service Aids

HEAT RESISTANT POLYIMIDE TAPE - 33M

NEW

Originally developed for space missions, this is a heat resistant polyimide film tape with a very similar composition to Kapton® but without the associated brand name cost. Its superior adhesion to ABS makes it the ideal film to coat a 3D printer bed.

- Temperatures up to 250° C
- 33m Long
- 0.055mm thickness

Width	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	33m	NM2890	$8.90	$8.00	$7.10
16mm	33m	NM2892	$13.90	$12.90	$10.90
24mm	33m	NM2894	$18.90	$16.90	$14.90

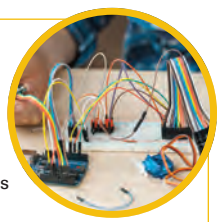
FLASHFORGE SPARE BUILD TAPE PADS

NEW

Stop your 3D models lifting from the print bed with this spare build tape pad to suit various Flashforge printers.

Suits	Cat.	Qty 1+
Flashforge Adventurer 3	TL4257	$9.90
Flashforge Finder	TL4221	$9.90
Flashforge Guider II	TL4241	$10.90
Flashforge Inventor	TL4231	$10.90

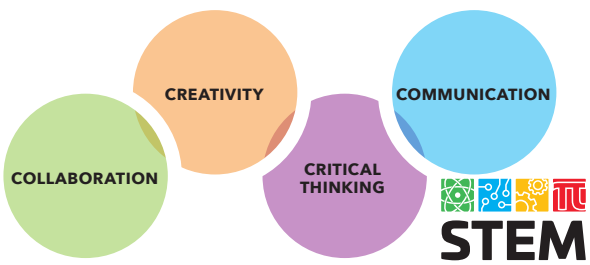
what is STEM?



STEM, or Science, Technology, Engineering and Mathematics is a curriculum based on the idea of educating students in these four specific disciplines using an interdisciplinary and applied approach. Each has a critical role to play but also enables discovery and progress in other fields.

THE STUDENT EXPERIENCE

Through participation in STEM opportunities, youth learn skills like:



3D Printer Parts

SPARE PARTS FOR TL4076 / TL4090 3D PRINTERS

SPARE NOZZLE TO SUIT TL4076 AND TL4090

- Brass
- 0.35mm orifice

TL4077

SPARE PTFE BARREL LINER FOR TL4076

- 2mm ID
- 3mm OD

TL4079

Note: Not available at all stores but can be ordered.

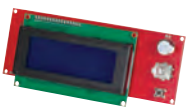
	Cat.	Qty 1+	Qty 4+	Qty 10+
Nozzle	TL4077	$10.90	$9.90	$8.90
PTFE Barrel	TL4079	$5.90	$5.30	$4.70

TL4100 3D PRINTER SPARE PARTS

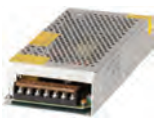
Range of spare parts to keep your TL4100 Printer in full working order. Happy printing!

Note: Not available at all stores but can be ordered.

TL4106



TL4107



TL4109

TL4111

TL4119

TL4121

	Cat.	Qty 1+	Qty 3+	Qty 6+
Stepper Motor Short Cable	TL4106	$5.90	$5.30	$4.70
12V 16A Power Supply	TL4109	$109.00	$97.90	$86.90
Heated Print Bed	TL4111	$109.00	$97.90	$86.90
Synchronous Wheel for Belt Drive	TL4119	$17.90	$15.90	$13.90
Collision Limit Switch Module	TL4121	$22.90	$20.50	$18.10
LCD Board and SD Card Module	TL4107	$34.90		

3D Printer Parts

DIY 3D PRINTING BOOK

This book compiled on 3D printing with Autodesk 123D, Tinkercad, and MakerBot reveals how to turn your innovative ideas into physical products that you can use or sell! This book will guide you to how to operate powerful, free software from Autodesk and bring your creations to life with the MakerBot - a leading consumer printer - or an online service bureau. The included practical lessons take you through the Design, Catch, Meshmixer, Tinkercad, Make, and CNC Utility apps, and the MakerBot Desktop. Fun projects, easy-to-follow instructions, & clear screenshots progress from installing the software to printing the design. Videos & digital files accompany this hands-on guide.

- Make your own creations with Design and Tinkercad
- Download editable, premade content
- Generate construction documents with the Layout feature
- Create and edit a reality capture model with Catch
- Edit and mash up .stl files with Meshmixer
- Navigate the MakerBot Desktop
- Print the model on your own machine or with a service bureau

	Cat.	Qty 1+
Softcover, 302 pages. 274 x 216mm	BM7122	$54.90

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

For next day delivery, or Click and Collect, see page 5

about duinotech:

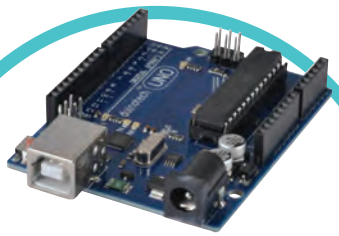
A microcontroller is a small, inexpensive computer. The most popular microcontroller amongst electronics enthusiasts, is the Arduino®, or technically the ATMEL ATmega328p. This single chip has everything required to operate like a small computer, it can be used to control your lights, measure temperature, control your garage door, and so on. All you need is a free program called Arduino® IDE and the Duinotech Learning Kit, and you will be developing your very own creation in no time. For the advanced enthusiast you will find hundreds of exciting modules and add-on shields for the Arduino® boards. Arduino® is a similar product to Raspberry Pi (see p22). Either system will give you a fantastic intro to computer technology. If anything ARDUINO® is supported worldwide by more suppliers. Your decision to choose one system will probably be down to what your techo friends or what your school is supporting.

duinotech

tech talk — What is Arduino®?

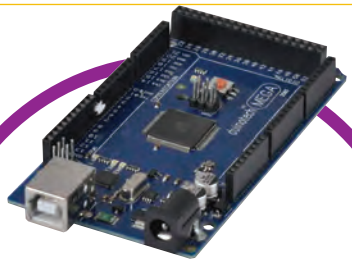
Arduino® is an open source hardware and software prototyping environment, but what does this mean? Open source means that the boards and programs have been developed by a community of people who are passionate about building their own ideas into projects, but also are willing to share their knowledge, designs, code and skills with other like-minded people. You not only have access to what's in this kit, but a wealth of shared resources, examples and project ideas to help you develop and learn.
To learn more about Arduino® visit www.arduino.cc

choose your board!



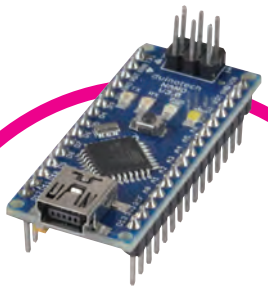
UNO XC4410

If in doubt, choose the Uno board. The Uno offers the best shield compatibility, especially if you are working with a shield that uses SPI (serial peripheral interface) for communication. Most shields are designed with the Uno in mind, so if you're having trouble getting sample code working, making sure it works with an Uno is a good start.



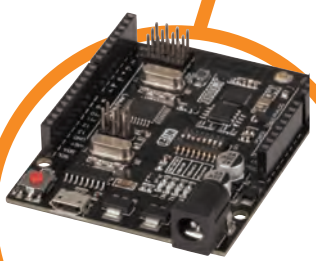
MEGA XC4420

The main time you will need to step up to a Mega is if you run out of resources - whether it is pins, RAM, EEPROM or program flash memory, the Mega has more of it. Even if you need extra hardware serial ports or PWM capable pins, these are available on the Mega. Standard shields will still fit on the Mega, so you don't necessarily need to start from scratch if you're already designing for the Uno or Leonardo



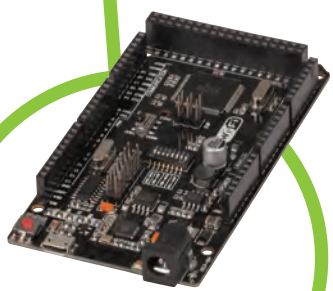
NANO XC4414

The Nano is essentially an Uno in a smaller package. Obviously, it will not work with shields, but if you have a design you need to make smaller, or just want something compact to fit on a breadboard or prototyping board, then the Nano is a good choice. Because the Nano uses the same microcontroller IC as the Uno, practically any circuit designed around an Uno can be transferred to a Nano.



UNO with WI-Fi XC4411

Just like the UNO above, but with the addition of Wi-Fi for amazing IoT projects..



MEGA with Wi-Fi XC4421

Just like the MEGA above, but with the addition of Wi-Fi for amazing IoT projects.

ESP-32 XC3800

Built in Wi-Fi and Bluetooth for amazing connectivity in a tiny package.

LEONARDO XC4430

The big difference between an Uno and a Leonardo is the microcontroller IC on the Leonardo has the USB functions built-in. It means the microcontroller can talk directly to a connected computer via USB. If you're building a circuit where you want to emulate a keyboard or mouse, or perform some other USB function, then the Leonardo will be a good choice.

Wi-Fi Mini XC3802

ESP8266 based Wi-Fi connectivity for broad community support, and great functionality.

LILYPAD USB XC4620

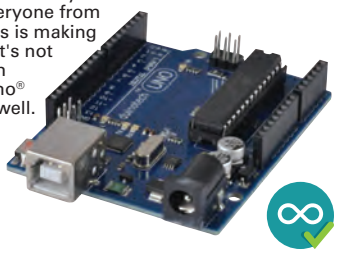
The Lilypad USB has the same microcontroller IC as the Leonardo, so is a good choice for similar applications, but is designed around a 3.3V board voltage, so should be considered if you are interfacing to modules that are not 5V tolerant. The Lilypad USB also has an inbuilt Lithium battery charge circuit, so is ideal for projects that will need to connect to a battery.

Arduino® Compatible Boards

DUINOTECH CLASSIC (UNO R3)

The flagship of our duinotech family, the duinotech Classic is a 100% Arduino®-Compatible development board. Its stackable design makes adding expansion shields a piece of cake. Powered from 7-12VDC or from your computer's USB port. In the past few years the Arduino® has taken the electronics world by storm. Everyone from hobbyists to professional engineers is making use of its limitless versatility. And it's not just for tech-heads; its easy to learn programming has made the Arduino® a hit with artists and educators as well.

- Fully Arduino® Uno Compatible
- ATMega16u2 USB-Serial Chipset



duinotech

SPECIFICATIONS	XC4410
ATMega328P Microcontroller	Program Memory: 32kB (2KB used by bootloader) EEPROM: 512 bytes, SRAM: 2kB Speed: 16MHz
IO	Digital IO: 14 pins (6 are configurable as Digital or PWM) PWM Capable: 6 pins, Analog Inputs: 6 pins Serial Ports: 1 (more supported via SoftwareSerial library)
Input Voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	75(W) x 53(L) x 13(H)mm

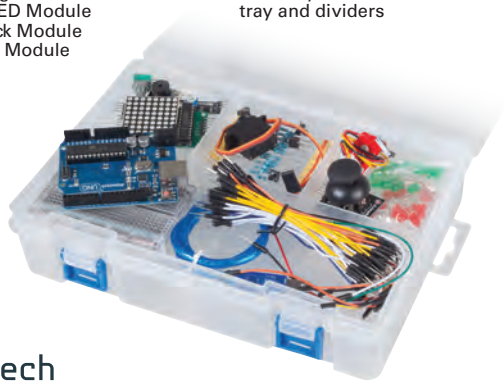
	Cat.	Qty 1+	Qty 5+
UNO	XC4410	$39.90	$35.90

DUINOTECH LEARNING KIT - PERFECT FOR BEGINNERS

Looking to get into Arduino® but don't quite know where to start? We have specially selected the components in this kit to allow an easy entry into the world of Arduino® and to work with the examples included with the Arduino® IDE. There are many resources online to teach how the Arduino® software and hardware interact. This kit is also compatible with the full range of Duinotech shields and modules, which can be used to extend your Arduino® experience.

Includes:

- 1 x Uno Main Board with USB Cable
- 1 x Breadboard
- 1 x Jumper Wires
- 1 x Servo Motor
- 1 x LDR Light Sensor Module
- 1 x RGB LED Module
- 1 x Joystick Module
- 1 x Buzzer Module
- 1 x LED Matrix Module
- 1 x Line Trace Module
- 1 x LED's
- 1 x Pushbuttons
- 1 x Resistors
- 1 x Carry case with insert tray and dividers



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
Includes Uno Board	XC3900	$94.90	$84.90	$75.90

CLEAR ACRYLIC ENCLOSURES FOR ARDUINO

NEW

Protect your Arduino® board against damage, dust and scratches with this clear acrylic enclosure. The case is easy to assemble and has been pre-drilled to provide easy access to all ports.

XC4406

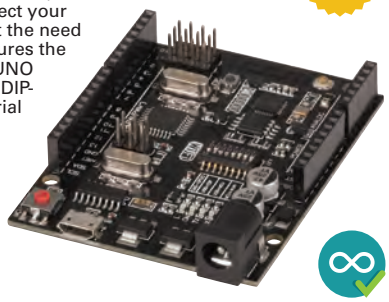
duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
Suits UNO	XC4406	$5.60	$5.00	$4.45
Suits MEGA	XC4408	$7.90	$7.10	$6.30

DUINOTECH CLASSIC WITH WI-FI

NEW

An Arduino® compatible UNO board with an integrated ESP8266 board, which makes it easy to connect your projects to the cloud without the need for additional modules. Features the ATmega328P and standard UNO layout, and includes a set of DIP-switches to configure the serial connections.



Wi-Fi

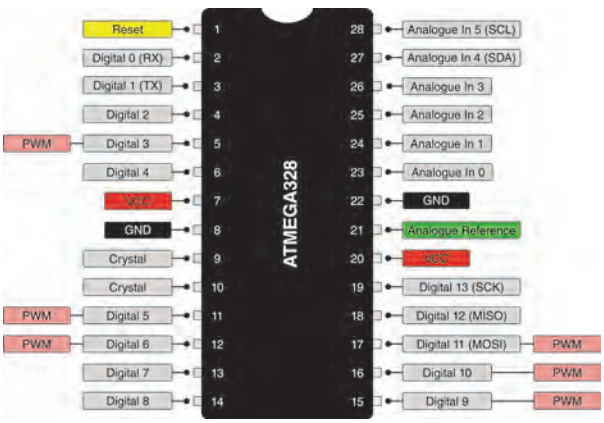
duinotech

ARDUINO® SPECIFICATIONS	
Processor:	ATmega328P (16MHz)
Memory:	32KB Flash, 2KB SRAM, 1KB EEPROM
Connectivity:	SPI, UART, I2C, 14 Digital GPIO (6 PWM), 6 Analogue (10-bit ADC)
ADC:	6 pins, 10-bit ADC
Voltage:	5V with regulator on board (accepts 7V - 12V)
ESP8266 SPECIFICATIONS:	
Processor:	ESP8266 32bit RISC (80MHz)
Memory:	32MB Flash included on board
Connectivity:	IEEE 802.11 b/g/n Wi-Fi
IO:	SPI, I2C, I2S, UART, 5 Digital GPIO, 1 Analogue (10 bit ADC)
Voltage:	3.3V with regulator on board (fed from Arduino)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4411	$45.90	$40.90	$35.90

tech talk — Useful Pinouts

Below is the pinout diagram of the ATMega328 microcontroller IC, found on the popular Arduino® Uno board. You'll find this diagram handy if you're prototyping on some breadboard instead of using one of our pre-built modules.



compatability icons

To assist you in selecting compatible products for your preferred microcontroller, we have created two icons. They should help you select appropriate modules and hardware. If in doubt, ask our friendly team.

Arduino® Compatible

Raspberry Pi Compatible

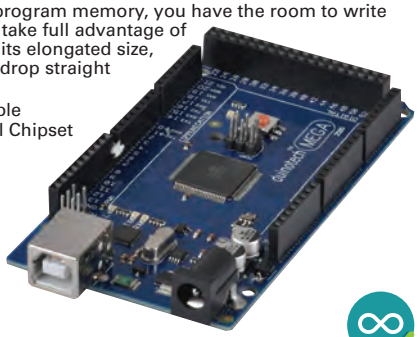
For next day delivery, or Click and Collect, see page 5

Arduino® Compatible Boards

DUINOTECH MEGA

This is our most powerful Arduino®-Compatible board. Boasting more IO pins, more memory, more PWM outputs, more Analog inputs and more Serial ports, the MEGA is definitely the Leader of the duinotech pack. When you have a project that just needs more inputs, outputs & memory than the duinotech Classic (Uno) can deliver, the MEGA has them in spades. And with 8x the program memory, you have the room to write much larger programs to take full advantage of the increased IO. Despite its elongated size, standard shields will still drop straight onto this board.

- Fully Arduino® Compatible
- ATMega16u2 USB-Serial Chipset



duinotech

SPECIFICATIONS	XC4420
ATMega2560 Microcontroller	Program Memory: 256kB (4kB used by bootloader) EEPROM: 4kB, SRAM 8kB, Speed: 16MHz
IO	Digital IO: 54 pins (15 are configurable as Digital or PWM) PWM Capable: 15 pins, Analog Inputs: 16pins Serial Ports: 4 (1 is connected to on-board USB-Serial port)
Input Voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	108(W) x 53(L) x 15(H)mm

	Cat.	Qty 1+	Qty 5+
MEGA	XC4420	$69.90	$62.90

DUINOTECH MEGA KIT

Includes:

- 1 x duinotech MEGA
- 1 x Solderless breadboard
- USB Cable
- 1 x 4 Digit Seven Segment Display
- 1 x 1 Digit Seven Segment Display
- 1 x 8x8 Dot Matrix Display
- 1 x 6AA battery holder
- Assorted Resistors
- Assorted LEDs
- RGB LED Module
- 4 x Tactile switches
- 2 x Piezo Sounders
- Assorted Jumpers
- 1 x 74HC595 Shift Register
- 1 x 50k Potentiometer
- 2 x Light Dependant Resistors
- 1 x Infrared Photo Diode
- 1 x Infrared Remote Receiver
- Analog Temperature Sensor
- 1 x 17 Button IR remote control
- 1 x Solderless breadboard
- 1 x 40-pin header
- 1 x Two channel relay module
- 1 x 2x16 LCD Display

duinotech

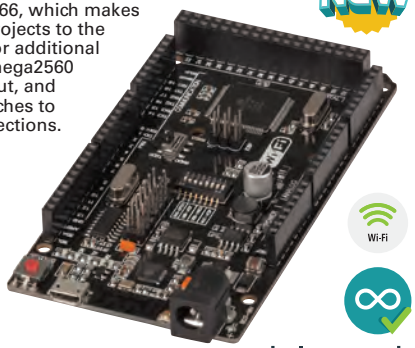
	Cat.	Qty 1+	Qty 3+	Qty 6+
Includes Mega Board	XC4286	$129.00	$115.90	$102.90

There are a number of Arduino® Main Boards available, and as you might expect, different boards will work better in different situations. If you've already checked out our Comparison Guide and still are not sure about which board to choose, or even just want some guidance for an upcoming project, see our Selection Guide on previous page.

DUINOTECH MEGA WITH WI-FI

NEW

An Arduino® compatible MEGA board with an integrated ESP8266, which makes it easy to connect your projects to the cloud without the need for additional shields. Features the ATmega2560 and standard MEGA layout, and includes a set of DIP-switches to configure the serial connections.



Wi-Fi

duinotech

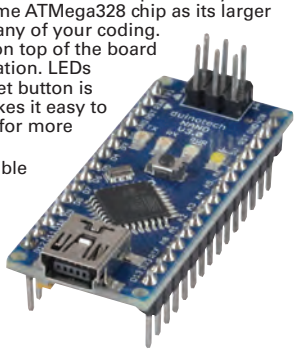
SPECIFICATIONS:	
Processor:	ATmega2560 (16MHz)
Memory:	256KB Flash, 8KB SRAM, 4KB EEPROM
Connectivity:	SPI, 4x UART, I2C, 54 Digital GPIO (15 PWM), 16 Analogue (10-bit ADC)
ADC:	16 pins, 10-bit ADC
Voltage:	5V with regulator on board (accepts 7V - 12V)
ESP8266 SPECIFICATIONS:	
Processor:	ESP8266 32bit RISC (80MHz)
Memory:	32MB Flash included on board
Connectivity:	IEEE 802.11 b/g/n Wi-Fi
IO:	SPI, I2C, I2S, UART, 5 Digital GPIO, 1 Analogue (10 bit ADC)
Voltage:	3.3V with regulator on board

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4421	$56.90	$50.90	$44.90

DUINOTECH NANO

This is the most breadboard friendly Arduino®-Compatible device you will find. Despite its small size, it packs virtually all the features of the full duinotech boards into a tiny DIP-style board that drops directly into your breadboard. It uses exactly the same ATMega328 chip as its larger cousins, so there is no need to change any of your coding. A Mini-B-USB port is easily accessible on top of the board for programming and serial communication. LEDs show power and serial status and a reset button is easily accessible. Its small DIP-style makes it easy to embed into Veroboard or custom PCBs for more advanced projects.

- Fully Arduino® and duinotech Compatible
- FT232RL USB-Serial Chipset
- USB cable included



duinotech

SPECIFICATIONS	XC4414
ATMega328P Microcontroller	Program Memory: 32kB(2kB used by bootloader) EEPROM: 512 bytes, SRAM:2kB, Speed: 16MHz
IO	Digital IO: 14 pins (6 are configurable as Digital or PWM) PWM Capable: 6 pins, Analog Inputs: 6 pins Serial Ports: 1 (more supported via SoftwareSerial library
Input Voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	46(L) x 18(W) x 18(H)mm

	Cat.	Qty 1+	Qty 5+
	XC4414	$39.90	$35.90

Arduino® Compatible

Raspberry Pi Compatible

Arduino® Compatible Boards

DUINOTECH LILYPAD BOARD

A compact ATMega4U based main board designed with portability in mind. Just like the Leonardo, a single chip handles main controller functions as well as USB connectivity, so the Lilypad can also act as a USB mouse or keyboard. Another big difference is that the Lilypad is a 3.3V board, and so all its inputs and outputs operate at 3.3V, although it can run off 5V power from the USB port.

- 9 Digital IO pins, 4 which can work as PWM and 4 which can work as analog inputs
- On-Off Switch
- LiPo Battery Charging connector and Circuitry

duinotech

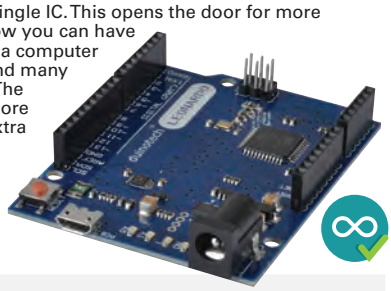
SPECIFICATIONS	XC4620
Program Memory	32kB
SRAM	2.5kB
EEPROM	1kB
Processor Frequency	8MHz
Dimensions	Dia.: 51m - Depth: 6mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Lilypad	XC4620	$16.90	$14.90	$13.90

DUINOTECH LITE (LEONARDO)

Most of the duinotech models use two chipsets, one for the main controller, one for USB communication. The duinotech Lite combines both these functions into a single IC. This opens the door for more advanced USB functions. Now you can have your duinotech Lite emulate a computer keyboard, mouse, joystick and many other types of input device. The duinotech Lite also boasts more analog inputs (12), and an extra PWM channel.

- Fully Arduino® Compatible
- Built in USB-Serial



duinotech

SPECIFICATIONS	XC4430
ATMega32u4 Microcontroller	Program Memory: 32kB (4KB used by bootloader) EEPROM: 1kB, SRAM: 2.5kB Speed: 16MHz
IO	Digital IO: 20 pins (7 are configurable as digital or PWM) PWM Capable: 7 pins Analog Inputs: 12 pins (6 are shared with digital pins) Serial Ports: 2 (One USB, one UART, more supported via SoftwareSerial library)
Input Voltage	5VDC Regulated via USB port or 5V pin 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	75(W) x 53(L) x 13(H)mm

	Cat.	Qty 1+	Qty 5+
Leonardo	XC4430	$39.90	$35.90

ESP32 MAIN BOARD WITH WI-FI AND BLUETOOTH®

The ESP32 is a powerful dual core microcontroller featuring Wi-Fi and Bluetooth, and thanks to the efforts of the Arduino® community, is able to be programmed with the Arduino® IDE through the ESP32 addon. It has 512kB of RAM, 4MB of flash memory and heaps of IO pins with features like 12 bit ADC, 8 bit DAC, I2S, I2C, touch sensor and SPI. This is the next step up if a standard AVR based Arduino® isn't powerful enough to do what you need.

- 3.3V operating and IO voltage
- 5V-3.3 converter onboard for operation from USB
- Arduino® Addon available (installation required)
- Micropython firmware available

Wi-Fi

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC3800	$45.90	$40.90	$35.90

WI-FI MINI ESP8266 MAIN BOARD

Wi-Fi

The ESP8266 based Wi-Fi Mini board packs an 80MHz microcontroller with Wi-Fi into a board not much bigger than a coin. With easy-to-add support for the Arduino® IDE, the Wi-Fi Mini is the perfect compact solution to your IoT sensor node problem. Includes 4MB of flash memory for your program and 11 digital IO pins and one analog input pin to interface to the world.

- 3.3V operating and IO voltage
- 5V-3.3 converter onboard for operation from USB
- Arduino® Addon available
- XC3850 Prototyping Shield available for adding extra hardware

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC3802	$28.90	$25.90	$22.90

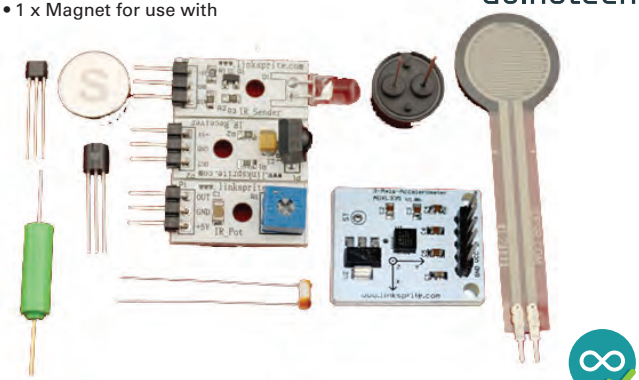
Value Packs

9 PIECE SENSOR PACK FOR ARDUINO®

This sensor pack for Arduino® includes the following components:

- 1 x IR Receiver Sensor
- 1 x Tilt Sensor
- 1 x Photo Cell Sensor
- 1 x Temperature Sensor
- 1 x Buzzer
- 1 x Hall Effect Sensor
- 1 x Magnet for use with Hall Effect Sensor
- 1 x ADXL 335 Triple Axis Accelerometer
- 1 x Force Sensitive Resistor

duinotech



Not available in all stores but can be ordered

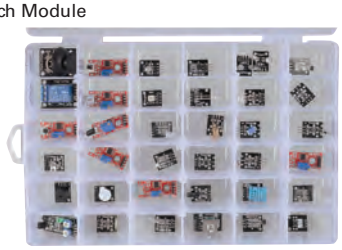
	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4593	$74.90	$66.90	$59.90

37 PIECE DELUXE MODULES PACKAGE

duinotech

With 37 different sensors and modules, this kit covers just about every input and output you can poke a soldering iron at. Packaged in a clear plastic organiser. See our website for detailed code samples.

- Joystick Module
- Relay Module
- Small Microphone Module
- Large Microphone Module
- Line Tracking Sensor
- Obstacle Avoidance Sensor
- Flame Sensor Module
- Hall Effect Sensor
- Touch Sensor
- Digital Temperature Sensor
- Buzzer Module
- Passive Buzzer/ Sounder
- RGB LED Module
- SMD RGB LED Module
- Two Colour LED Module
- Reed Switch Module
- Mini Reed Switch Module
- Heartbeat Sensor
- Seven Colour Flashing LED Module
- Laser Module
- Tactile Switch Module
- Shock Sensor
- Rotary Encode Module
- Tilt Switch Module
- Ball Switch Module
- Light Dependant Resistor Module
- Temperature and Humidity Module
- Digital Temperature Sensor
- Analog Temperature Sensor
- IR Transmitter Module
- IR Receiver



	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4288	$119.00	$106.90	$94.90

For next day delivery, or Click and Collect, see page 5

Raspberry Pi & accessories:

Raspberry Pi is the cute name for a British developed range of small computer boards and peripheral hardware. Don't be fooled!

These little boards have very powerful computing power thanks to the latest microprocessor technology. They are light years ahead of the 8-bit hobby computers of the past. They are full 64-bit machines with similar processing power to office computers or your laptop.

The Raspberry Pi is, in fact, a learning system. It starts, of course, with a Starter Pack, to launch you into the world of computer HARDWARE. (You learn software along the way.)

Hopefully, your imagination will be hooked on the possibilities these little computers have in their relationship to the real world.

Oh, and be stimulated by the enthusiasts who have trodden this path already with their ingenious applications of computer technology.

The following pages describe all the hardware extension products for Raspberry Pi. Keep an eye on our website for great Raspberry Pi project inspiration, you can build yourself too.

RASPBERRY PI 3B+ SINGLE BOARD COMPUTER

NEW

The latest product in the Raspberry Pi3 range.

Modular compliance certification allows the board to be designed into end products without the need for further wireless compliance testing.

- 64-Bit quad core processor running at 1.4GHz
- Dual band 2.4GHz / 5.0GHz wireless
- Bluetooth 4.2/BLE
- Faster Ethernet
- PoE capability via a separate PoE HAT.

p.332 switchmode power supply

DUAL BAND

	Cat.	Qty 1+
Raspberry Pi 3B+	XC9001	$99.90

RASPBERRY PI STARTER KIT

The Raspberry Pi has been designed as a computer that anyone can use. If you want to get started with a Raspberry Pi, but don't know where to start, then this kit has just about everything you need. Ideal for those starting out, or even as a basic educational computer for a student. You will also need a USB keyboard, mouse, HDMI monitor/TV and HDMI cable.

Includes:

- Raspberry Pi 3B
- Acrylic Case
- Power Supply and USB Cable
- Book (Programming the Raspberry Pi: Getting Started with Python)
- Micro SD Card loaded with NOOBS software
- Getting Started Guide

	Cat.	Qty 1+
Raspberry Pi Starter Kit	XC9010	$169.00

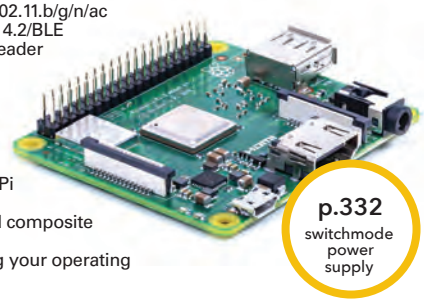
RASPBERRY PI 3A+ SINGLE BOARD COMPUTER

NEW

The Raspberry Pi 3 Model A+ is the latest product in the Raspberry Pi 3 range. Like its big brother Raspberry Pi 3 Model B+, the new 3 model A+ also boasts a 64-bit quad core processor running at 1.4GHz, with dual-band 2.4GHz and 5GHz wireless LAN, and Bluetooth 4.2/BLE. While it is able to perform all the same functions as its larger counterpart, it lacks both an ethernet port and contains one USB port. These allow for a smaller form-factor (with the same traditional mounting), and uses about 40% less power, which can be a benefit for your next robotic or IoT project.

DUAL BAND

- Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
- 512MB LPDDR2 SDRAM
- 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2/BLE
- Extended 40-pin GPIO header
- Full-size HDMI
- Single USB 2.0 ports
- CSI camera port for connecting a Raspberry Pi Camera Module
- DSI display port for connecting a Raspberry Pi Touch Display
- 4-pole stereo output and composite video port
- microSD port for loading your operating system and storing data
- 5V/2.5A DC power input



p.332 switchmode power supply

	Cat.	Qty 1+
Raspberry Pi 3A+	XC9008	$64.90

16GB NOOBS SD CARD FOR RASPBERRY PI

A 16GB Micro SD card with fullsize SD card adapter preloaded with the NOOBS software, allowing easy install of the standard Raspbian operating system. Great option for beginners who aren't comfortable imaging their own cards. Also includes Librelec media player as an install option.

The following operating systems are also able to be downloaded and installed by NOOBS (internet connection needed):

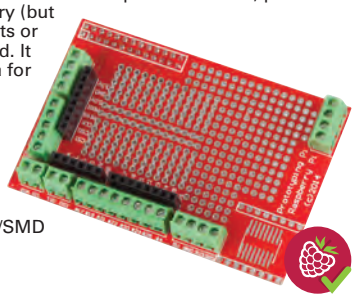
- Raspbian Lite
- Lakka
- OSMC
- Screenly
- Windows 10 IOT Core

	Cat.	Qty 1+
16GB NOOBS SD Card for RPi	XC9030	$28.90

PROTOTYPING HAT FOR RASPBERRY PI

This prototyping hat for Raspberry Pi has a main area with gold plated holes that are spaced at the standard 2.54mm, making this ideal for use with DIP packaged ICs or sensors. Around the side of the board are 0.1" header strips and screw down terminals that tap into the GPIO, power and other interfaces for temporary (but robust) connection of components or wiring that can be easily removed. It also has a large prototyping area for PTH and SMD components.

- Screw Terminals
- Header connections
- Gold plated holes
- 2.54mm spacing of holes
- 26 pin GPIO
- SOIC Breakout
- Large prototyping area for PTH/SMD components
- Dimensions: 85(W) x 56(L)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Prototyping Hat for Raspberry Pi	XC9040	$17.90	$15.90	$13.90

Raspberry Pi Books

RASPBERRY PI PROJECTS FOR EVIL GENIUS

BM7162

Raspberry Pi Electronics Projects for the Evil Genius features ten fun DIY projects that showcase the Pi's applications in computing, communications, robotics, photography, and video. Each Evil Genius project includes a detailed list of materials, sources for parts, schematics, and clear, step-by-step assembly and programming instructions. Readers will get up and running right away by learning how to program a touchscreen, interface with an Arduino® processor, build a fully working cell phone and even build a super computer using a cluster of Pis! Advanced projects include a Software Defined Radio, robot controller, robotic arm, point-and-shoot camera, and a complete infrared surveillance system. Features C, Java, and Python programming techniques.

PROGRAMMING THE RASPBERRY PI - BOOK

BM7160

Don't be scared off by the name. Learning Python is a great way to getting to know the hardware on the Pi, and although this book is written for the Raspberry Pi 2, the hardware differences are small, and most of the book is perfectly suited to the Pi 3B. The book is a great introduction to Python, and if you are looking to do any amount of programming on the Raspberry Pi, then Python comes highly recommended, and there is excellent library support for the Pi's hardware. The book includes a comprehensive language guide, graphical interface creation, games, hardware interfacing and even a robot project.

	Cat.	Qty 1+
RPi Projects for the Evil Genius	BM7162	$59.90
Programming the Raspberry Pi	BM7160	$33.90

touch screens for
Raspberry Pi:

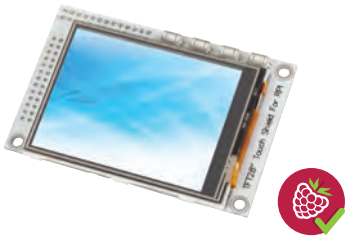
Touch screens are a great way to provide an intuitive user interface, and with the Raspberry Pi this is as easy as connecting any one of the touch screens from our range offering 2.8", 5" and 7" screens. The 2.8" and 5" Touch screens utilize Resistive Touch technology, with a pen option offering single touch operation. The 7" Touch screen utilizes advanced capacitive touch technology giving you the full multi-touch capabilities.

2.8 INCH TOUCHSCREEN FOR RASPBERRY PI

This compact 2.8 inch screen provides 320 x 240 resolution and includes resistive touch functionality. It creates a small but functional user interface capable of displaying and controlling a Raspbian desktop. Low power requirement, powered directly from the GPIO pins. Custom image/ kernel drivers required for operation.

- 2.8 inch
- 320x240 pixel
- Resistive touch
- Plugs straight into the top of Raspberry Pi

SPECIFICATIONS	XC9022
Screen	2.8", 320x240 Pixels, TFT
Voltage	3.3-5V



	Cat.	Qty 1+	Qty 3+
2.8"	XC9022	$33.90	$29.90

7 INCH TOUCHSCREEN WITH HDMI AND USB

This 7 inch LCD screen has a resolution of 1024x600. It can connect directly to a Raspberry Pi as well as to any other HDMI source that supports the native 1024 x 600 resolution, via the built-in HDMI port. It also includes a capacitive touch interface. This module is designed to connect directly to the top of a Raspberry Pi, with a small HDMI double plug that locks the two together, but it can be used as a standalone display powered via the micro USB socket on the device. A back-light with switch is included. Now you can add a compact second display to your HDMI device, or make your own portable display device. Turn the Pi plus monitor combination into your own portable computer, small enough to install in a car, or even a custom 3D printed case. Some display and driver configuration may be needed for operation. This display works with Microsoft Windows® versions up to Windows® 10, and supports 5 point touch input (with the exception of Windows® XP which has single point touch).

- 7 inch
- 1024x600 resolution
- Capacitive touch screen
- Switchable backlight
- HDMI input
- Powered via one of the 2 micro USB ports. The other ports is for touch support
- Mounting tabs in each corner

SPECIFICATIONS	XC9026
Screen	7", 1024x600 Pixels
Inputs	HDMI, USB Capactive Touch
Supports	Raspbian, Ubuntu, Kodi, Windows 10 IOT or XP (one touch point), Windows 7, Windows 8 and Windows 10 (5 Point Touch)
Touch	Five-Point Capacitive
Weight	380g
Dimensions	165(W) x 124(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
7"	XC9026	$179.00	$160.90	$142.90

5 INCH TOUCHSCREEN WITH HDMI AND USB

This 5 inch LCD screen has a resolution of 800x480. It can connect directly to a Raspberry Pi and can connect to any other HDMI source that outputs the native 800 x 480 resolution, via the built-in HDMI port. It also includes a resistive touch interface via the GPIO header. This module is designed to connect directly to the top of a Raspberry Pi, with a small HDMI double plug that locks the two together, but it can be used as a standalone display powered via the micro USB socket on the display. A backlight with switch is included. Now you can add a compact second display to your HDMI device, or make your own portable display device. Some display and driver configuration may be needed for operation.

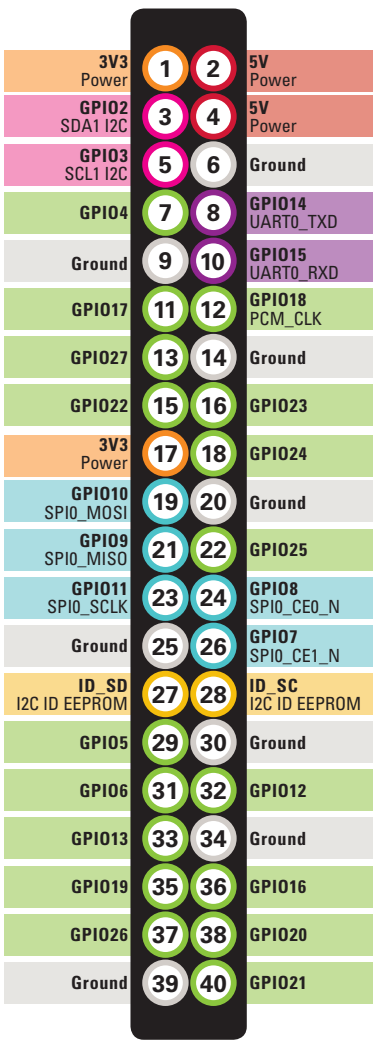
- 5 inch with resistive touch
- 800x480 pixel
- HDMI
- Touch interface GPIO only

SPECIFICATIONS	XC9024
Screen	5", 800x480 Pixels
Inputs	HDMI, Resistive Touch
Supports	Raspbian for touch, video via HDMI at 800 x 480
Weight	175g
Dimensions	121(W) x 78(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
5"	XC9024	$119.00	$106.90	$94.90

tech talk Raspberry Pi

Below is th epinout diagram of the Raspberry Pi 3B & 3B+. You'll find this diagram handy if you're prototyping.



Jaycar in the community:

Jaycar has been a proud sponsor of the Starlight Children's Foundations for many years. The Starlight's mission is to "Brighten the lives of seriously ill children and their families." A very admirable mission which the Foundation fulfils daily both inside and outside the hospital setting. In 2018, Starlight's celebrates its 30th Anniversary. To the Starlight volunteers and those participating in the Starlight Express Rooms, Wish Granting, or Livewire Online programs, congratulations from all of us at Jaycar on the amazing milestone. We put our hand up to help support your further endeavours to fulfil your mission.

Starlight Children's Foundation Supporter

For next day delivery, or Click and Collect, see page 5

Raspberry Pi & Accessories CONTINUED

5MP CAMERA FOR RASPBERRY PI

This 5MP camera connects directly to the camera connector on the Raspberry Pi, saving precious USB ports. The camera is capable of up to 2592x1944 resolution. Video recording is supported for 1080p @ 30fps, 720p @ 60fps and 640x480p @ 60/90fps. Support for the camera is built into the latest version of Raspbian.

- Based on the 5MP Omnivision 5647 camera module
- Connects directly to Raspberry Pi/camera connector
- Up to 1080p video
- Up to 2592x1944 pixel images
- Fully compatible with both the Model A and Model B Raspberry Pi

SPECIFICATIONS	XC9020
Still resolution	5 Megapixels - 2592 x 1944 Pixels
Video	Supports 1080p @ 30fps, 720p @ 60fps and 640x480p 60/90
Recording Video	S15-pin MIPI Camera Serial Interface - Plugs Directly into the Raspberry Pi Board
Dimensions	25(W) x 20(L) x 9(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
5MP Camera for Raspberry Pi	XC9020	$28.90	$25.90	$22.90

5MP NIGHT VISION CAMERA FOR RASPBERRY PI

NEW

Similar to our XC9020 camera but features a camera lens with an adjustable focal length, and an onboard infrared LED to improve vision in dim lighting. Ideal for providing vision to your Rasberry Pi projects, including surveillance applications. The 5MP camera connects directly to the camera connector on the Raspberry Pi, saving precious USB ports, and is capable of up to 2592x1944 resolution. Video recording is supported up to 1080p @ 30fps, and the camera is built into the latest version of Raspbian.

- Video resolution up to 1080p @ 30fps; 720p @ 60fps
- Still resolution up to 5MP 2593 x 1944
- Compatible with both Model A and Model B Raspberry Pi

SPECIFICATIONS	XC9021
Resolution:	Up to 1080p
Camera:	5MP
CCD size:	1/4 inches
Aperture (f):	1.8
Dimension:	25mm x 24mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
5MP Camera with Light	XC9021	$56.90	$50.90	$44.90

GPIO EXPANSION KIT FOR RASPBERRY PI

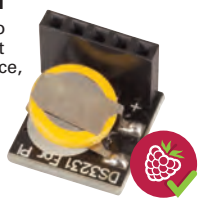
If you want to delve into the prototyping of hardware for the Raspberry Pi, then the GPIO expansion kit is a necessity. Using a colour coded rainbow ribbon cable, all 40 GPIO pins are broken out to a header which can be plugged straight into a breadboard. The header is clearly labelled with each pin name, making breadboarding of circuits super easy.

	Cat.	Qty 1+	Qty 3+	Qty 6+
GPIO Expansion Kit for RPi	XC9042	$14.90	$13.90	$11.90

RTC CLOCK MODULE FOR RASPBERRY PI

The XC9044 is a tiny RTC module which uses I2C to communicate with the Raspberry Pi. Once set up, it can be used to provide a battery backed clock source, and is ideal for situations where the Pi may be powered off and on or out of range of Wi-Fi where it cannot get a reliable time fix.

- Five Pin header that plugs straight onto the Pi's GPIO pins I2C interface based on highly accurate DS3231 IC



	Cat.	Qty 1+	Qty 4+	Qty 10+
RTC Clock Module for Raspberry Pi	XC9044	$10.90	$9.90	$8.90

OFFICIAL RASPBERRY PI 3B CASE RED AND WHITE

This is the official case for Raspberry Pi 3B designed by the Raspberry Pi Foundation. The snap-together case requires no tools and has numerous removable panels to allow access to GPIO pins and other internal connections such as the camera port. Deep slot for easy access to Micro SD card.

- Stylish red and white design
- Easy no-tools assembly
- Protect your Pi
- Light pipes for activity LEDs
- Four Rubber feet included

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC9006	$16.90	$14.90	$13.90

ENCLOSURE FOR RASPBERRY PI

If you're using your Raspberry Pi as a computer, you probably don't want all the pins and wires exposed to short out. This compact case is the perfect thing for protecting your Pi in fact it wouldn't even look out of place sitting next to your TV if you are using the Pi as a media computer. It has openings for the USB, HDMI, Ethernet, 3.5mm, MicroUSB and MicroSD card ports on the Pi, and includes four screws to secure the case closed. The removeable end panel features cooling holes, and overall, the case is only millimetres longer than the Pi itself. If you do want to tinker with your Pi, the top can be removed to allow access to the GPIOs and other headers. For easier access to the GPIO pins and other headers, see XC9004.

Includes:

- Base
- Lid
- End Panel with vent holes
- Fixing screws

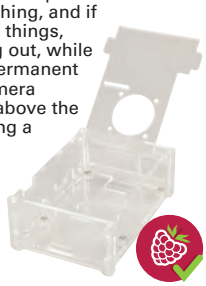
	Cat.	Qty 1+	Qty 4+	Qty 10+
Enclosure for Raspberry Pi	XC9002	$10.90	$9.90	$8.90

CLEAR ACRYLIC ENCLOSURE FOR RASPBERRY PI WITH GPIO ACCESS

This simple snap-together enclosure is the perfect way to protect your Raspberry Pi, but still be able to easily access the GPIO pins and other headers. The crystal clear acrylic doesn't hide anything, and if you are going to be connecting and disconnecting things, then this enclosure will keep your Pi from shorting out, while still allowing access via the hinged lid. For semi-permanent setups, there are slots in the lid for the GPIOs, Camera header and Display header. Another hole directly above the processor provides ventilation and allows mounting a small cooling fan.

Includes:

- Six plates with cutouts for all Raspberry Pi connections
- Mounting nuts and bolts
- Insulating spacers



	Cat.	Qty 1+	Qty 4+	Qty 10+
Clear Acrylic Enclosure for RPi3	XC9004	$10.90	$9.90	$8.90

RASPBERRY PI MEDIA PLAYER KIT

A great use for the Raspberry Pi computer is as a compact media player. This kit includes everything you need to turn your HDMI TV into a customizable media centre. Because it's based around the Pi, there are heaps of custom apps that can be added to make your media centre do what you like.

Includes:

- Raspberry Pi 3B
- ABS Case
- HDMI Cable
- Power Supply and USB Cable
- Miniature Wireless Keyboard/ Trackpad with Media functions
- MicroSD card installed with Media software

	Cat.	Qty 1+
Raspberry Pi Media Player Kit	XC9012	$199.00

Raspberry Pi & Accessories CONTINUED

DUAL CARD ADAPTOR FOR RASPBERRY PI

NEW

Insert the SD card switch into your Raspberry Pi to switch between operating systems on separate microSD cards.

Please note: You must turn off the Raspberry Pi before switching the SD card. Failure to do so will damage the SD card.

SPECIFICATIONS	XC9034
Card Slot Size	microSD
Max Card Size	32GB
Required Power	None
Dimensions	36 x 24mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC9034	$33.90	$29.90	$26.90

AUDIO DAC MODULE FOR RASPBERRY PI

NEW

This simple DAC can be used to create your own Raspberry Pi based music player or just improve the sound quality from your Raspberry Pi. Plugs directly onto your Pi & requires minimal setup using Volumio & RuneAudio. Compatible with any 38kHz IR remote control.

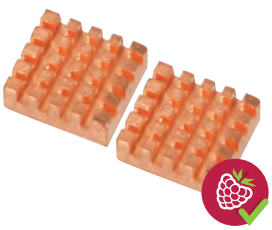
SPECIFICATIONS	XC9048
Sampling Frequency	384kHz
Resolution (Bits)	16-32
Digital Audio Interface	I2S
SNR	120dB
THD	-93dB
Dynamic Range	112dB
IR Receiver	38kHz

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC9048	$79.90	$71.90	$63.90

COPPER HEATSINK FOR RASPBERRY PI PK. 2

If you've got your Raspberry Pi doing some intensive work like running a media player or mining cryptocurrency, then heatsinks can help to dissipate some of that extraneous heat that is generated. Can even be used on motor driver ICs or other power ICs and regulators.

- Self-adhesive pads for peel and stick use
- PGA works well for all airflows including convection only



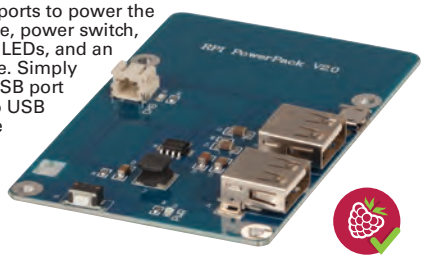
	Cat.	Qty 1+	Qty 4+	Qty 10+
	HH8584	$8.90	$8.00	$7.10

3.7V 3800MAH LITHIUM-ION BATTERY PACK

NEW

Make your Raspberry Pi project completely portable with this power expansion board with Li-ion battery pack. The expansion board is designed to attach directly below your Rasberry Pi and provide power from the 3800mAh Li-ion battery. Features two USB ports to power the RPi and another USB device, power switch, power and charging status LEDs, and an integrated charging module. Simply charge from an available USB port through the onboard micro USB socket. Mounting hardware included.

- Dual USB outputs
- High capacity 3.7V Li-Ion battery included
- Onboard charging circuit



SPECIFICATIONS	XC9060
Battery Capacity:	3800mAh
Max Discharge Current:	1.8A
No-Load Output Voltage:	5.1V
Charging Current:	1A
Cut-off Voltage:	4.18-4.2V
Dimensions:	85(L) x 56(W)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC9060	$33.90	$29.90	$26.90

5V POE POWER SPLITTER

This device splits the PoE into a regular ethernet plug and microB USB power plug. Giving you 5VDC to power your devices like Raspberry Pi or Arduino®.

1 YEAR WARRANTY

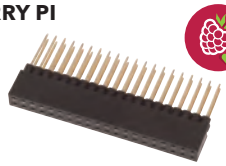
SPECIFICATIONS	YN8416
PoE Voltage Input	44-57V
Voltage Output	5VDC @ 2.4A Max
Connectors	1 x RJ45 PoE Socket 1 x RJ45 Ethernet Plug 1 x MicroB USB Plug
PoE Standard	IEEE 802.3af
Data Rate	10/100Mbps
Dimensions	88(L) x 30(W) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
5V Micro USB Plug	YN8416	$33.90	$29.90	$26.90

STACKABLE HEADER FOR RASPBERRY PI

One of the essentials for building your own custom hat for Raspberry Pi. Perfect fit for the 40 pin GPIO header. Can also be used to break out a DIL connection to a breadboard by bending the pins slightly.

- 2 x 20 stackable header
- Extended body for extra spacing



	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM3228	$4.50	$4.00	$3.60

micro:bit

MICRO:BIT GO DEVELOPMENT BOARD BUNDLE

The micro:bit is an open source system originally designed by the BBC for use in computer education in the UK and is now available in Australia.

Described as being about half the size of a credit card, you can use the accelerometer to detect movement and tilting or the magnetic sensor to detect metal or create a compass. Uses for the 5 x 5 LED display are limited only by the imagination and 2 on-board input push buttons provide instant control.

Another 3 inputs are provided via the 5 ring connectors (the other 2 are for power and ground) which can be accessed via alligator clips or banana connectors. On top of this, the ring connectors form part of a larger 23 pin edge connector for more advanced projects. And if that isn't enough, USB and Bluetooth® connectivity allows interfacing with other peripherals!

Programming can be done via Microsoft MakeCode or MicroPython, both of which are available on the micro:bit foundation website. Power is via USB or the provided 2 x AAA battery holder (batteries included).

NEW

Bluetooth®

p.67 micro:bit compatible robot

SPECIFICATIONS	XC4320
Bluetooth Version	V4.0
Flash Memory	256kB
RAM	16kB
USB Lead length	150mm
GPU	16MHz ARM Cortex-M0 microcontroller
CPU	Nordic Semiconductor nRF51822
USB Voltage Input	5V
Dimensions	43(W) x 52(L)mm

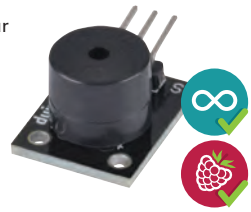
	Cat.	Qty 1+
	XC4320	$39.90

For next day delivery, or Click and Collect, see page 5

For Microcontrollers
audio & sound:

People are accustomed to communicating with sound, and it makes sense for our Arduino® to do the same thing. From generating a warning simple tone or responding to a noise through to playing back a recorded message, there are a variety of Arduino® modules and shields for making and detecting sounds.

ACTIVE BUZZER MODULE



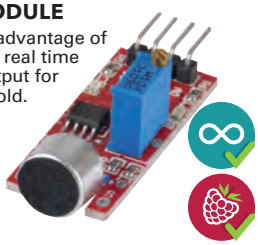
Use this module to generate sound from your Arduino®; libraries are available to produce different tones and frequencies.

- Operating voltage 5VDC
- Active speaker
- 3 pin header
- Dimensions: 25(L) x 15(W) 10(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4424	$5.30	$4.70

MICROPHONE SOUND SENSOR MODULE



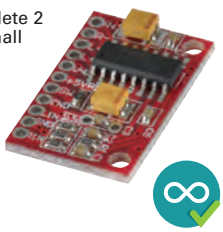
This unit is highly sensitive with the added advantage of having two outputs. An analogue output for real time microphone voltage signal, and a digital output for when the sound intensity reaches its threshold. Great to turn your Arduino® into a voice recorder or vox.

- 5VDC operational voltage
- Sensitivity potentiometer adjustment
- Dimensions: 43(L) x 16(W) x 13(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4438	$10.90	$9.70

2 X 3W AMPLIFIER MODULE



This remarkably small module provides a complete 2 x 3W stereo audio amplifier. Ideal for driving small speakers and earphones. Requires no external components.

- Operating Voltage: 2.5-5.5VDC
- Output Power: 2x3W @ 4ohm
- Efficiency: >90%
- Uses PAM8403 IC.
- Amplifier type: Class-D
- Dimensions: 23(W) x 16(D) x 2(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4448	$6.90	$6.20

MP3 RECORDING MODULE

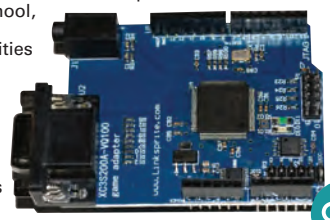
A full featured MP3 module that supports both playback and recording. An onboard microphone is used for audio in, and a 3.5mm jack provides the output. There is also a line-in header to use an external audio source instead of the microphone. Most projects using this device will require some form of mass-storage, such as an SD card.

- Input power 5VDC
- Supports MP3, MP3+V, WMA,WAV, MIDI, SP-MIDI
- UART & SPI interface
- Recording format IMA ADPCM
- Dimensions: 44(L) x 44(W) x 10(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4516	$28.90	$25.90	$22.90

GAMEDUINO



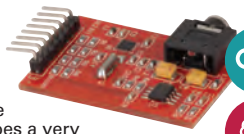
Gameduino is a game adaptor for Arduino® (or anything else with an SPI interface) built as a single shield that stacks up on top of the Arduino® and has plugs for a VGA monitor and stereo speakers. The sound and graphics are definitely old-school, but thanks to the latest FPGA technology, the sprite capabilities are a step above those in machines from the past. The adaptor is controlled via SPI read/write operations, and looks to the CPU like a 32kB RAM.

- Video Output 400x300 pixels in 512 colours
- Compatible with any standard VGA monitor (800x600 @ 72Hz)

duinotech

Cat.	Qty 1+
XC4550	$56.90

SI4703 FM TUNER BREAKOUT BOARD

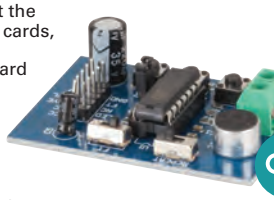


This is a breakout board for the Silicon Laboratories Si4703 FM tuner chip. Beyond being a simple FM radio, the Si4703 is also capable of detecting and processing both Radio Data Service (RDS) and Radio Broadcast Data Service (RBDS) information. The Si4703 even does a very good job of filtering and carrier detection. It also enables data such as the station ID and song name to be displayed to the user.

duinotech

Cat.	Qty 1+
XC4595	$22.90

RECORD & PLAYBACK MODULE



Add sound to your Arduino® without the complexity of MP3 modules and SD cards, using the ISD1820 based record and playback Module. Includes an on-board microphone and can drive a small speaker directly.

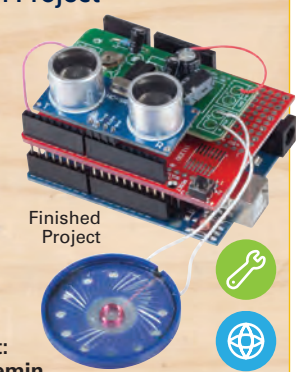
- Records up to 10 seconds
- Control playback from module buttons or digital inputs
- Works on 3.3V or 5V
- Can work in loop or single play mode
- Dimensions: 54 x 38 x 10mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4605	$11.90	$10.70	$9.50

make it

Ultrasonic Theremin Project With Arduino®



This project is ideal for the musically inclined. Just like a traditional Etherwave-Theremin, this theramin plays back samples and modulates them depending on the distance of your hand to the sensor. This simple project doesn't need many parts to get its sound because it uses a few of the special hardware features of the ATMEGA 328p chip in the Uno to do most of the work. There is some soldering needed in this project.

See step-by-step instructions at: jaycar.co.nz/diy-ultrasonic-theremin

compatability icons

To assist you in selecting compatible products for your preferred microcontroller, we have created two icons. They should help you select appropriate modules and hardware. If in doubt, ask our friendly team.

Arduino® Compatible

Raspberry Pi Compatible

OK, WHAT IS A SHIELD?

The Arduino® was originally designed by the Italians, and Italians being Italians have some weird names for things.

A word that you will hear a lot on these pages is SHIELD. For the purposes of Arduino, a shield is not a thing to protect you in a swordfight, it's a description for a device that will go with another Arduino® device. It could be a temperature sensor, a music generator, or even a Wi-Fi adaptor, etc. Sometimes the word "Module" is used as well. Both terms have an interchangeability about them.

Get on the programme!

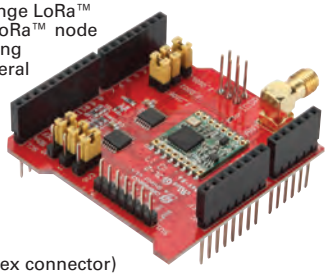
For Microcontrollers
Wi-Fi/network/computer:

You might think it's a bit of a stretch to put an Arduino® in the same category as a computer, but with the right modules and shields, you can almost be on the same level. With a Wi-Fi or Ethernet connection, your Arduino® can be serving up web pages or communicating over great distances. Add a USB host shield, and connect a keyboard or mouse, and you've got an easy to use interface for your next project.

LOW COST LONG RANGE DATA COMMUNICATIONS

LoRa™ is a powerful new technology enabling secure wireless data communications over long distances even several kilometres without the need of a mobile GSM network. LoRa™ can be used in many outdoor or indoor applications, such as building automation, weather monitoring, irrigation systems control, smart metering, smart cities, and much more. For more information about LoRa™ visit www.lora-alliance.org

LONG RANGE LORA SHIELD CAT. XC4392



The Arduino® Compatible Long Range LoRa™ shield turns your Arduino® into a LoRa™ node capable of transmitting and receiving data over long distances, even several kilometres, without the need of a GSM network. The perfect solution to your remote sensor and control projects. An external antenna is included.

- Compatible with 3.3V or 5V I/O Arduino® Board
- LoRa™ frequency Band: 915MHz
- Low power consumption
- Includes external Antenna (via I-Pex connector)

LONG RANGE LORA GATEWAY CAT. XC4394

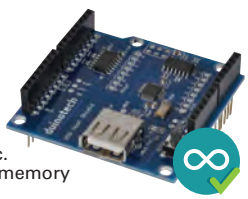
The Long Range LoRa™ Gateway allows you to connect several remote wireless LoRa™ devices, such as sensors, switch and control nodes to an IP network or the Internet, via Wi-Fi or Ethernet. A USB host port allows the gateway to be connected to a 3G/4G network using an external modem (not included).

- Internet connection via LAN, Wi-Fi
- USB host port (for 3G/4G modem connection)
- Built-in web server
- Managed by Web GUI, SSH via LAN or Wi-Fi
- Support Wi-Fi AP, Client or Ad-Hoc(Mesh) mode
- 9 x Digital, 7 x Analogue I/O, 2 x PWM, 1 x I2C
- Arduino® IDE compatible. Easy to program
- LoRa™ frequency band: 915 MHz

Note: Radio transmitting devices must be used in accordance with Australian Communications & Media Authority guidelines (www.acma.gov.au)

	Cat.	Qty 1+	Qty 3+	Qty 6+
LoRa Shield	XC4392	$79.90	$71.90	$63.90
LoRa Gateway	XC4394	$169.00		

USB HOST EXPANSION BOARD



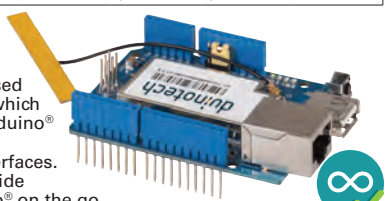
Brings the ubiquitous USB Host connectivity to your Arduino® project. This shield even supports Google Android® ADK allowing connections to Smartphones and Tablets. The USB port can also be used with a USB hub.

- Supports HID: keyboards, mice, joysticks, etc.
- Supports mass storage devices: USB sticks, memory card readers, external hard drives, etc.
- Dimensions: 55(W) x 54(D) x 23(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
	XC4456	$48.90	$43.90

YUN WI-FI SHIELD



The Yun Shield is a complete compact Linux computer based on the Open WRT firmware which can be controlled by your Arduino® Main Board. It features Wi-Fi, ethernet, USB and Serial interfaces. Connect a 3G dongle to provide connectivity for your Arduino® on the go, or use it as a gateway for your IoT projects. Can also program an attached Arduino® board via Wi-Fi.

- Web configuration interface
- 77mm x 54mm x 26mm

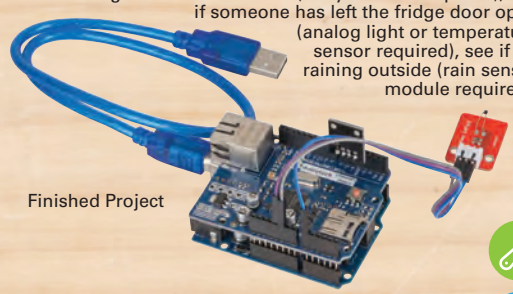
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4388	$79.90	$71.90	$63.90

make it

Ethernet IO Controller With Arduino®

This clever project uses our XC4412 ethernet shield to connect your Arduino® to a wired network so you can access it across the Internet. See and change the current state of the IO pins, so you can turn devices on and off remotely across the Internet. Use it to turn on the lights in another room (relay module required), see if someone has left the fridge door open (analog light or temperature sensor required), see if it's raining outside (rain sensor module required).



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-ethernet-controller

ETHERNET SHIELD

A network shield that will allow the user to set their Arduino® up as web server, control your project over your network or even allow your Arduino® to connect to the World Wide Web.

- 10/100Mb Ethernet port
- Reset button
- microSD card slot
- Stackable headers
- Dimensions: 69(L) x 48(W) x 14(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4412	$48.90	$44.00	$39.10

ESP-13 WI-FI SHIELD

Using the powerful ESP8266 IC, the ESP-13 Wi-Fi Shield adds much more than just plain Wi-Fi to your Arduino®. It has an 80MHz processor and can also act as an access point or web server. An excellent way to get into the Internet of Things (IoT).

- Integrated TCP/IP stack
- Simple AT command interface with Arduino® main board
- Can be programmed directly with Arduino® IDE (separate programmer needed)
- Switches on shield to disconnect from Arduino®
- Dimensions: 68 x 52 x 12mm

duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4614	$45.90	$40.90	$35.90

RS-232 TO TTL UART CONVERTER MODULE

This tiny module allows you to connect a legacy device (or computer) to your existing Arduino® board. Providing a full RS-232 port, this shield allows you to directly communicate with a huge variety of serial peripherals.

- Supports TX and RX signals
- Four pin header for 5V, GND, TX and RX signals
- Micro USB socket for optional power input
- Genuine RS-232 compatible signals on D9 socket

duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC3724	$10.90	$9.90	$8.90

Arduino® Compatible **Raspberry Pi Compatible**

For next day delivery, or Click and Collect, see page 5

For Microcontrollers
IR / RF:

We'd be pretty lost without wires connecting everything together, but sometimes it can be handy to make the connection without getting all tangled up. Check out the shields and modules below for ways to connect wirelessly. Alternatively, control an existing wireless device like the IR remote on your TV, or get data from the 433MHz transceiver on your weather station.

IR REMOTE CONTROL

Forget borrowing the TV remote to add IR remote control to your next Arduino® project, and give it its own dedicated remote. Compact design with 21 buttons including numbers and channel controls. Takes a single CR2025 battery.

- NEC modulation works with 'IRremote' library
- Pocket size with numeric keypad
- Easily add IR control to your next project with XC4427

	Cat.	Qty 1+	Qty 4+	Qty 10+
IR Remote Control	XC3718	$10.90	$9.90	$8.90

INFRARED TX MODULE

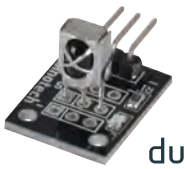
Use this device to send data over infrared. Use your Arduino® to control your TV or Media Centre. Combine it with our RX module (XC4427) and you have simple wireless communication. You could also use it to control one of our infrared RC helicopters!

- Operating Voltage: 5VDC

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4426	$5.90	$5.30	$4.70

INFRARED RX MODULE



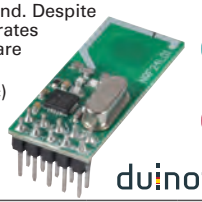
Receive data sent via infrared, this module can read the signals sent by most IR remote controls. Pair it with the TX Module (XC4426) to make a universal remote control.

- Operating Voltage: 5VDC

duinotech

	Cat.	Qty 1+	Qty 5+
	XC4427	$5.30	$4.70

2.4GHZ RF MODULE



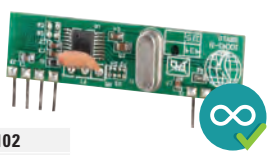
Based on the NRF24L01 transceiver IC, this module allows communication on the license free ISM band. Despite its diminutive size, it supports on-air data rates of up to 2Mbps. No external components are required (other than your Arduino®).

- Operating Voltage: 3.3V (5V tolerant logic)
- Output Power: 1mW
- Chipset: NRF24L01
- Ultra low power consumption
- Protocol: SPI
- Dimensions: 33(L) x 14(W) x 9(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4508	$11.90	$10.70	$9.50

433MHZ WIRELESS MODULES



Pre-built 433MHz wireless transmitter / receiver modules featuring ASK encoding and are ideal for devices using short data bursts such as remote controls, trigger pulses etc.

SPECIFICATIONS	ZW3100	ZW3102
Output Power	3dBm.	
Supply Voltage	3VDC	5VDC
Supply Current	10mA max	
Data Rate	300bps to 10kbps	
PCB Measures (excl pins)	18.5(H) x 14.5(W)mm	42(H) x 11(W)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Transmitter	ZW3100	$16.90	$15.20	$13.50
Receiver	ZW3102	$16.90	$15.20	$13.50

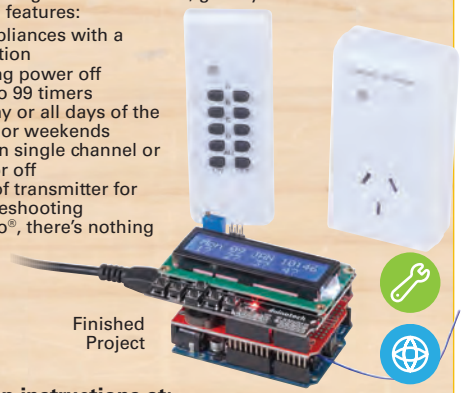
make it

RTC Power Point Timer With Arduino®

Using Arduino® to control a 240V appliance but don't want to get zapped? Well then, here is your solution. Building on the simplicity of the Arduino® Clock, we've developed a project that interfaces to our MS6148 Remote Controlled Mains Outlet using a 433MHz transmitter and adding some extra code, gives you a mains timer with the following features:

- Switch on/off appliances with a minute of resolution
- Keeps time during power off
- Programme up to 99 timers
- Can be set for any or all days of the week, weekdays or weekends
- Can be set to turn single channel or all channels on or off
- Manual control of transmitter for setup and troubleshooting

And being Arduino®, there's nothing to stop you taking the code apart and adding your own features.



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-rtcpowerpointtimer

RF TRANSCEIVER MODULE

This module adds a versatile 433MHz radio to your duinotech project. Capable of transmitting and receiving over a wide frequency range, these modules allow two-way wireless communication between duinotechs. Controlled via SPI. Prewritten libraries available.

- Operating Voltage: 1.9-3.6VDC
- Frequency Range 433/898/915MHz
- Maximum Data Rate: 50kbps (with error correction)
- RF output power: 13dBm(20mW)
- Connection protocol: SPI
- Includes antenna
- Dimensions: 32(W) x 19(L) x 19(H)mm (Excluding antenna)

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4522	$24.90	$22.40	$19.90

SIM CARD BREAKOUT BOARD

This is a full 8-pin breakout for the SIM socket allowing direct access to SIM communication. Features a Lock and Open switch.

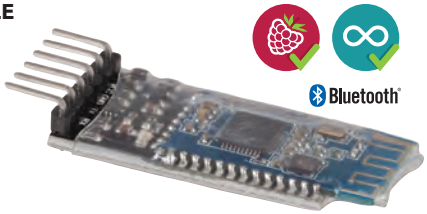
duinotech

	Cat.	Qty 1+
	XC4596	$16.90

For Microcontrollers
Bluetooth®:

Bluetooth® technology is in many things around us, such as computers and mobiles phones. Allowing Arduino® to communicate with these devices via Bluetooth® can expand their functionality. From simple display of debugging data on your laptop to full control of your Arduino® robot with an app, Bluetooth® can provide the connectivity you need.

BLUETOOTH® V4.0 BLE



Configurable as master or slave. Provides a serial communication channel.

- State status pin
- Serial interface with AT commands
- 5V IO and power

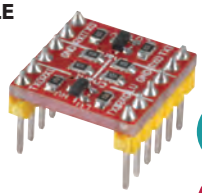
duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4382	$33.90	$29.90	$26.90

For Microcontrollers
power/voltage conversion:

Getting power to your Arduino® project is fairly important, and will probably need extra components if you want to take what you're building beyond the reach of the USB cable on your computer. From charging batteries to converting between systems running off different voltages or even getting power to your breadboard, you'll find something to help amongst the modules below.

LOGIC LEVEL CONVERTER MODULE



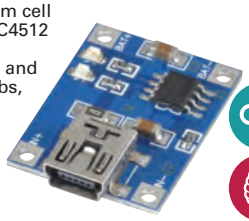
While most of the modules used in the Arduino® world are 5V logic, some are 3.3V. And unfortunately, connecting them directly often results in "letting out the smoke!" This little module is the answer. Provides two bi-directional channels to safely marry 3.3V with 5.0V. Drops straight into solder-less breadboard or can be soldered into your own PCBs.

- Two bi-directional channels
- 12-pin DIL package
- Dimensions: 35(W) x 31(D) x 21(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4486	$6.90	$6.20

LITHIUM BATTERY CHARGE MODULE



This tiny module charges a single lithium cell from a 5V supply. Ideally paired with XC4512 DC-to-DC Converter Module to create a device that runs on a single lithium cell and recharges by USB. Output via solder tabs, Input is either via solder tabs or a mini-USB port.

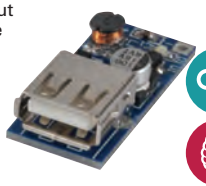
- Input voltage 4.5V-5.5VDC
- Default charge rate: 1A
- Full charge voltage 4.2V
- Charge state LEDs
- Dimensions: 27(L) x 19(W) x 5(H)mm

Note: Batteries not included.

duinotech

Cat.	Qty 1+	Qty 5+
XC4502	$6.90	$6.20

5VDC BOOST MODULE



This module is capable of providing a stable 5V, from a single Li-Po or two Alkaline cells. Input is via two solder pads, output is via a female USB socket.

- Input Voltage Range: 2.5-5VDC
- Output Voltage: 5VDC
- Dimensions: 34(L) x 16(W) x 8(H)mm

Note: Batteries not included.

duinotech

Cat.	Qty 1+	Qty 5+
XC4512	$6.90	$6.20

make it

Lithium Battery USB Charger With Arduino®

A compact power solution if you need to power your Arduino® project on-the-go, or where constant 5V power is not available. Some soldering and detailed construction required.

Finished Project

See step-by-step instructions at: jaycar.co.nz/lbc

DC - DC STEPDOWN MODULE

This module accepts any voltage from 4.5 - 35VDC, and outputs any lower voltage from 3-34V. Output is adjusted via a multi-turn potentiometer. Use it to run your 5V duinotech projects from a 6V, 9V or even 12V supply.

- Input voltage: 4.5 - 35VDC
- Output voltage: 4 - 34VDC adjustable
- Maximum output current: 2.5A
- Dimensions: 49(L) x 26(W) x 12(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4514	$10.90	$9.70

DC-DC BOOST MODULE WITH DISPLAY

The Arduino® compatible boost module can be used to provide higher voltages for your project, such as running 5V Arduino® projects from Lithium batteries.

- Output from 5V-56V
- Input range 3.5V-35V
- Max 2A input current without heatsinking
- Solder terminals
- Cannot be used to reduce voltage
- Dimensions: 66 x 35 x 12mm

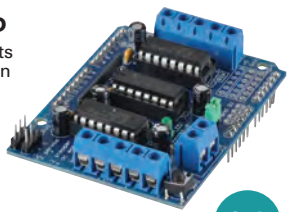
duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4609	$24.90	$22.40	$19.90

For Microcontrollers
motor/power control:

Practically all motors use more power than any of the pins on Arduino® Main Board can supply, so we need to use a Motor Control Shield or Module to interface. Most motors also operate off a voltage different to 5V, and many of these Shields and Modules will provide regulation of higher input voltages down to 5V for your Arduino® main board as well. Of course, these boards aren't limited to just driving motors, they are suitable for many power control applications.

L293D MOTOR CONTROL SHIELD



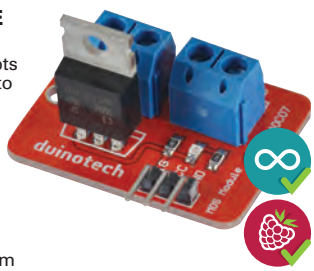
This versatile board has 2 x 5V servo ports connected to the Arduino® high-resolution dedicated timer to ensure jitter-free operation. It is also capable of driving up to 4 bi-directional DC motors with individual 8-bit speed selection, or up to 2 stepper motors with single/two/interleaved steppings.

- 5V to 16VDC
- 4 H-Bridges: per bridge provides 0.6A (1.2A peak current) with thermal protection
- 2 external terminal power interface
- Dimensions: 70(L) x 53(W) x 20(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4472	$17.90	$16.10

24V 5A MOS DRIVER MODULE



When connected to an Arduino®, this impressive MOS driver module accepts Pulse Width Modulated (PWM) input to drive 24VDC loads. Compatible with both Arduino® and pcDuino®, making it perfect for many projects such as lighting, DC motors, pumps and solenoid.

- 3.3V & 5V DC operation
- Output load voltage 0-24VDC
- Output current 5A
- Dimensions: 34(L) x 21(W) x 16(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4488	$10.90	$9.70

find out more in store

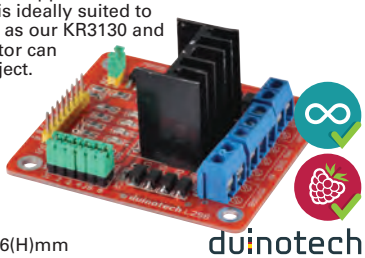
Our staff offer friendly and helpful service. We're here to help.

For next day delivery, or Click and Collect, see page 5

For Microcontrollers: Motor / Power CONTINUED

DUAL MOTOR CONTROLLER MODULE

Using the powerful L298N Dual Motor Driver, this module allows full control of two DC Motors or one stepper-motor. Features back-EMF and over-temperature protection, it is ideally suited to drive two-motor robot kits such as our KR3130 and KR3132. An on-board 5V regulator can also be used to power your project.



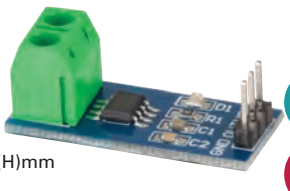
- Maximum output current: 4A
- Motor voltage: 3-30VDC
- Screw terminals for easy connections
- LEDs show power and output status
- Requires six digital pins
- 4 mounting holes
- Dimensions: 69(W) x 56(D) x 36(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+
	XC4492	$19.90	$17.90

30A CURRENT SENSOR MODULE

Monitor the motors on your next robot project with the 30A Current Sensor Module. The module outputs a voltage proportional to current passing through the sense pins on the module. Based on the ACS712 sensor IC.



- Output ratio is 66mV/A
- Can measure negative and positive current flows
- Onboard power indicator
- 5V supply required
- Current path is isolated from logic pins
- Dimensions: 31(L) x 13(W) x 15(H)mm

duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4610	$11.90	$10.70	$9.50

RELAY BOARDS

These handy relay modules provide the easiest way to use your duinotech to switch real world devices. Available in one, four and eight channel versions, these modules can switch up to 10A per channel. Includes back-EMF protection and LEDs so you can easily see the state of the outputs. The four and eight channel versions even have optical isolation to protect your duinotech. While the one channel version operates directly from 5V.

- Status LEDs show channel status
- Active High logic
- Screw terminals for easy connection to relay contact.
- SPDT Relays
- Current Ratings: 10A @ 250VAC, 10A @ 30VDC
- Four mounting holes on each module

duinotech

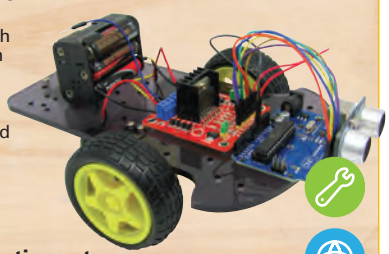
CAT.	CHANNELS	SUPPLY VOLTAGE	OPTICAL ISOLATION	DIMENSIONS
XC4419	1	5VDC	No	40(W) x 27(D) x 18(H)mm
XC4440	4	12VDC	Yes	77(W) x 55(D) x 17(H)mm
XC4418	8	12VDC	Yes	135(W) x 50(D) x 19(H)mm

Channels	Voltage	Cat.	Qty 1+	Qty 5+
1	5VDC	XC4419	$6.90	$6.20
4	12VDC	XC4440	$17.90	$16.10
8	12VDC	XC4418	$24.90	$22.40

make it

Wall Dodging Robot With Arduino®

This little robot is fitted with an ultrasonic sensor, which it uses to help navigate its surroundings. When it detects an object in front, it backs up, turns a little and then continues on its way.



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-dodging-robot

For Microcontrollers
wheels & chassis:

Making things that move is really exciting, but it can also be challenging to build. We make it easy by providing all the bits and bolts you need to make solid and rugged moving vehicles. Combined with other components, such as the Ultrasonic proximity sensor, motor driver and any one of the Arduino® range of boards, and your next weekend project could be an impressive intelligent buggy.

2 OR 4 WHEEL DRIVE MOTOR CHASSIS ROBOTICS KIT

These two kits make creating your own robot easier than ever. Available in 2WD and 4WD versions; each kit includes motors, wheels, tyres and two pre-drilled mounting plates. These kits are ideal for an Arduino® or pcDuino robotics project.

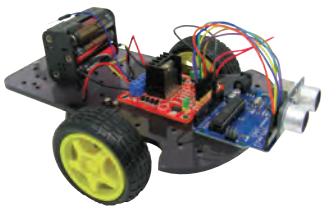
- Pre-Drilled mounting plates
- One motor + gearbox per wheel
- Motor voltage: 5-10VDC

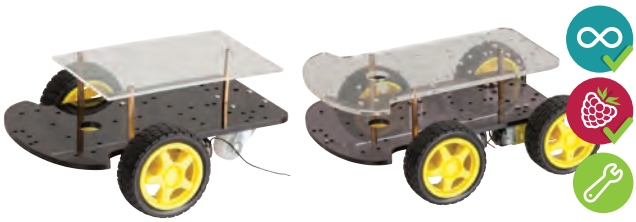
Dimensions:

2WD KR3160
- 215(L) x 160(W) x 100(H)mm

4WD KR3162
- 240(L) x 160(W) x 100(H)mm

Note: Accessories not included.





KR3160 KR3162

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
2 Wheel	KR3160	$48.90	$44.00	$39.10
4 Wheel	KR3162	$59.90	$53.90	$47.90

DC GEARED MOTOR WITH RUBBER WHEEL

DC geared motor with rubber wheel suitable for your Arduino® vehicle based/robotics applications. Also a suitable replacement for the 2WD (KR3160) and 4WD (KR3162) car chassis.

- DC motor: Working voltage 5-10VDC
- Gear ratio: 48:1
- 1 x plastic tyre wheel / 1 DC Gear Motor
- Bi axial can match speed encoder
- Convenient speed measurement
- Dimensions: 66(Dia.) x 28(W)mm

duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG2900	$11.90	$10.70	$9.50

4 WHEEL DRIVE ALL METAL CHASSIS CAR KIT

NEW

An easy to build chassis kit with all metal construction. Supplied with four motors with wheels, and everything you need to build the frame. Multiple mounting points make it easy to mount your favourite sensors, such as the XC4442 Ultrasonic Sensor. A motor controller (XC4472), UNO microcontroller (XC4410) and 4 x AA batteries are available separately to get your 4WD robot in action.

SPECIFICATIONS	KR3166
Motor gear ratio:	1:48
Motor No-load speed:	125RPM
Motor torque:	0.8Nm
Weight:	760g
Dimensions:	260(W) x 210(L) x 65(H)mm

	Cat.	Qty 1+
	KR3166	$69.90

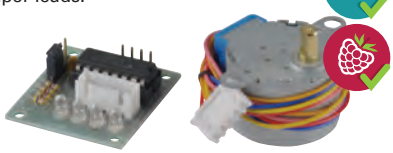
For Microcontrollers
steppers & servos:

Stepper and servo motors are used whenever you want to precisely control rotation or angular motion. Many DIY 3D printers utilise several stepper motors controlled by an Arduino® based controller. We have a wide range of stepper and servo motors to suit different applications.

5V STEPPER MOTOR & DRIVER SET

A small and versatile motor and driver set. 5VDC stepper motor controlled by the ULN2003 driver can be used with any Arduino® or compatible board via jumper leads.

- 5VDC stepper motor
- Stepper motor size: 28mm diameter
- Step angle 5.625 x 1/64
- Reduction ratio 1/64
- LED indicators
- Driver board size: 35(L) x 32(W) x 10(H)mm



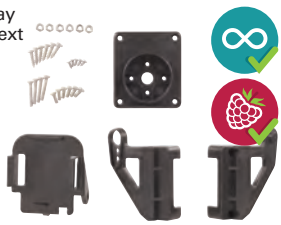
duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4458	$11.90	$10.70	$9.50

PAN & TILT ACTION CAMERA BRACKET MOUNT FOR 9G SERVOS

This camera bracket mount is the easy way to add pan and tilt functionality to your next robot or Arduino® project. Add two 9G servos (YM2758) to complete assembly. The clips on the front are designed for an action camera to clip straight in. Or even mount an XC4442 Ultrasonic Sensor and create an Arduino® controlled sonar, or an XC4478 Accelerometer to create a levelling gimbal. Easy to assemble.

- Clamp for servo wires
- Servos not included
- Dimensions: 35 x 55 x 35mm (Assembled)



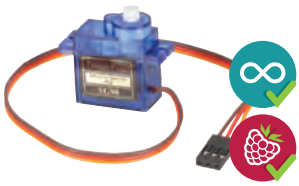
duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4618	$5.90	$5.30	$4.70

9G MICRO SERVO MOTOR

Micro servo motor, perfect for use with XC4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino® Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm
- Cable Length: 250mm

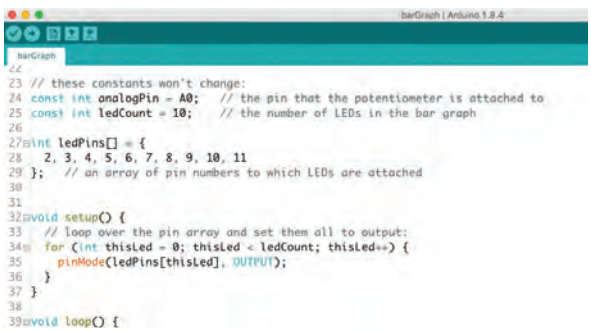


duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
YM2758	$11.90	$10.70	$9.50

tech talk — Sketches Defined

The sketch is the program that is compiled by the Arduino® IDE and uploaded to your main board. This is the software part of any Arduino® project. One of the great things about the Arduino® community is that they love to share ideas, and sketches can be found in the Arduino® IDE and in many places where users show off their projects on the internet.



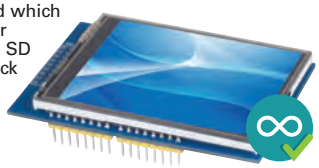
For Microcontrollers
input & control:

With any Arduino® project, there'll be a point where you need to provide some input to tell it what to do. From steering a robot in real-time to changing a setting occasionally, there's a shield or module that will help you control your sketch.

240X320 LCD TOUCH SCREEN FOR ARDUINO®

A large, colourful touch display shield which piggy-backs straight onto your Uno or Mega. Display photos from the Micro SD card slot on the display to create a slick and professional-looking project.

- 320x240 pixel resolution
- Fast Parallel interface
- Micro SD Card slot
- Resistive touch interface
- Dimensions: 77(L) x 52(W) x 19(H)mm



duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
XC4630	$36.90	$33.20	$29.50

TOUCH SHIELD

The MPR121 IC is a great way to build simple capacitive touch interfaces, and now it's even easier to incorporate into your Arduino® projects with the touch shield. The touch shield has 9 capacitive touch pads, with headers for the remaining 3 electrode connections. With this shield you can have a total of 12 touch sensitive buttons. An on-board logic level converter allows it to work with 5V and 3.3V Arduino® boards Simply solder on some header pins and stack it on to your Arduino® for a convenient input device.

duinotech

Cat.	Qty 1+
XC4551	$22.90

FINGERPRINT SENSOR MODULE

NEW

Runs off 3.3V and TTL serial to send data back and forth between the mainboard and fingerprint sensor.

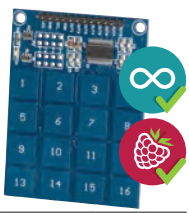
To help you get up and running quickly you can download the Arduino® library we have written at: https://github.com/Jaycar-Electronics/Fingerprint-Sensor

Cat.	Qty 1+	Qty 4+	Qty 10+
XC4636	$56.90	$50.90	$44.90

16 KEY TOUCH KEYPAD MODULE

A compact 16 key touch interface for your Arduino® project, based on the TTP229 capacitive touch sensor IC. Use the module as it is, or extend wires from the pads to create external touch pads.

- Works on 2.4-5.5V
- Onboard power indicator
- Two wire serial data interface
- Dimensions: 65 x 50 x 12mm



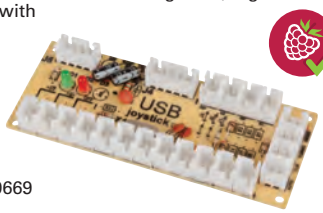
duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4602	$11.90	$10.70	$9.50

USB INTERFACE FOR JOYSTICK AND BUTTONS

If you're building your own arcade game, whether it's with a PC or Raspberry Pi, you'll need a joystick. This interface board allows you to easily interface joysticks like our SM1052 and arcade pushbuttons like SP0662, SP0664, SP0665, SP0666 and SP0669 into any device that can connect to a USB joystick. It could be used for arcade games, flight simulators or anything that works with a USB joystick.

- Up/Down/Left/Right inputs
- 12 button inputs
- Detachable USB lead for fitting through small holes
- Includes 10 pluggable leads that connect directly to spade terminals on SM1052, SP0662, SP0664, SP0665, SP0666 and SP0669



Cat.	Qty 1+	Qty 4+	Qty 10+
XC9046	$22.90	$20.90	$17.90

For next day delivery, or Click and Collect, see page 5

For Microcontrollers: Input & Control CONTINUED

XY JOYSTICK MODULE

This handy module gives you X & Y axis control for your Arduino® project. The board is interfaced through 5 pin header and provides a small game-pad style joystick. There is also a tactile switch when you push the stick down.

- Operating Voltage: 3-5VDC
- Digital output for tactile switch
- X & Y axis analog outputs
- Dimensions: 47(L) x 25(W) x 32(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4422	$7.30	$6.50	$5.80

ARCADE JOYSTICK WITH MICROSWITCHES

Solidly built joystick is ideal for arcade games and emulators or anything that needs digital directional controls.

- SPST Microswitches for reliable operation
- Adjustable restrictor plate with options for 2 way, 4 way and 8 way
- Metal mounting plate and main shaft
- Removable knob for easy mounting

	Cat.	Qty 1+	Qty 10+	Qty 25+
Arcade Joystick	SM1052	$22.90	$20.90	$17.90

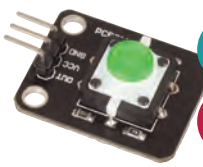
ILLUMINATED ARCADE BUTTON

Brightly coloured illuminated pushbutton switches ideal for creating a custom arcade machine, or even use as a large illuminated pushbutton for a control panel. Suits 25mm mounting hole.

- SPDT Microswitch for reliable operation
- All connections are 6.3mm spade
- Includes LED illumination suitable for 12V

		Cat.	Qty 1+	Qty 10+	Qty 25+
Red		SP0662	$10.90	$9.90	$8.90
Yellow		SP0664	$10.90	$9.90	$8.90
Green		SP0665	$10.90	$9.90	$8.90
Blue		SP0666	$10.90	$9.90	$8.90
White		SP0669	$10.90	$9.90	$8.90

LED PUSHBUTTON MODULE FOR ARDUINO



A simple pushbutton module with a green LED, ideal for adding an input to a breadboard design or other project.

- Tactile Pushbutton and Green LED
- LED lights up when button pressed (can be changed with jumpers/wiring)
- 5V and 3.3V compatible

	Cat.	Qty 1+	Qty 5+
	XC3722	$10.90	$9.90

make it

LED Tester With Arduino®

Finished Project

A handy little tool that can help you out if you work with LEDs, especially if you are always trying to work out the right resistor to make them work. The idea has been inspired by Dave Cook's model at http://robotroom.com/LED-Tester-Pro-1.html. We have written the code from scratch to suit the parts we have available in the duinotech range.

- Adjustable test current
- Displays LED Forward Operating voltage
- Calculates ideal resistor & gives Cat. number for a design voltage and current
- Only 3 discrete components to be soldered
- Detachable shields - pull it apart & use for other projects

See step-by-step instructions at: jaycar.co.nz/diy-arduino-led-tester

RETRO NES STYLE CONTROLLER

NEW

Play games on your Raspberry Pi with an old-school retro feel. This USB controller has a SNES layout, and is designed to fit the contours of your hand. The controller features - 4 buttons, start – Select buttons, and a direction controller.

The device does not require any additional batteries, and is easily configurable.

- Cable Length: 1.4m
- USB Type : Type – A, Standard
- Dimensions: 140 x 60 x 20mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4404	$10.90	$9.90	$8.90

RETRO NES CASE FOR RASPBERRY PI

NEW

Our retro inspired gaming case is perfect for building a raspberry Pi based emulator with that nostalgic feeling. Includes access to all ports on your raspberry Pi, additional USB ports, & a handy storage slot for your spare SD cards. Complete the look with our retro controller (XC4404).
Requires 5.1V power supply (MP3536) for optimum performance.
Item dimensions
120mm x 95mm x 44mm

	Cat.	Qty 1+
	XC4403	$45.90

KEYPAD SHIELD WITH LCD

Comes with a built-in 16 character by 2 line LCD display with backlight, this six push button keypad allows you to create a user friendly interface for your project. The keypad consists of up, down, left, right, select and also a reset button. Perfect to use as a selection menu.

- 16 Characters x 2 lines (32 Characters)
- Contrast adjust knob
- LED Backlight
- 4 Bit Arduino® LCD Library
- Dimensions: 80(W) x 58(D) x 20(H)mm

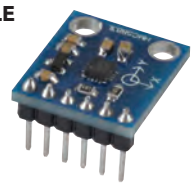
duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4454	$24.90	$22.40	$19.90

For Microcontrollers
compass / orientation/ GPS:

We pretty much take for granted many of the sensors that are on our phones these days- compass, GPS, accelerometer, but did you know that you can also add similar features to your Arduino® projects? You could use a compass sensor to help guide your robot or an accelerometer to keep your Arduino® controlled gimbal facing upright, or even provide a tilt-based user input device for next project.

3 AXIS DIGITAL COMPASS MODULE



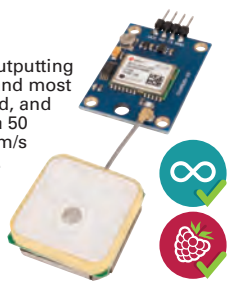
This module allows you to take accurate compass bearings, no matter how it is orientated. Easily interfaced via I2C.

- Operating Voltage: 5VDC
- Resolution: 12bits
- Interface: I2C
- Includes 5V - 3V level shifter
- Dimensions: 20(L) x 16(H) x 5(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4496	$17.90	$15.90	$13.90

ARDUINO® COMPATIBLE GPS RECEIVER MODULE



A GPS receiver using the NEO6MV2 module, outputting NMEA data at 9600 baud. GPS is the simplest and most accurate way of determining position and speed, and this module gives excellent performance with a 50 channel receiver, 2m position accuracy and 0.1m/s speed accuracy (under good signal conditions).

- Ceramic antenna
- 4 Pin header for power and serial data
- 3.3V regulator on board
- Battery backed RAM

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC3712	$56.90	$50.90	$44.90

For Microcontrollers
NFC & RFID:

RFID technology is one of those things that is everywhere around us, including security systems, bank cards, public transport cards and even passports. Using a RFID module or shield you can read (and write to, depending on how secure they are) RFID cards and interact with NFC enabled items like mobile phones.

RFID READ & WRITE KIT

This RFID module allows you to both read and write MiFare-Type RFID cards. Create your own contactless security lock. Includes one credit-card style tags and one key-fob style tag.

- Operating Voltage: 3.3V
- Communications Protocol: SPI
- RFID Protocol: MiFare
- Includes 1 x card and 1 x fob
- Dimensions: 66(L) x 40(W) x 7(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4506	$24.90	$22.40	$19.90

SPARE 13.56MHZ RFID/NFC CARD & FOB

Suits XC4506, XC4542 and some Android phones.

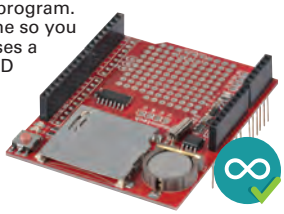
- 1kB data space

	Cat.	Qty 1+	Qty 4+	Qty 10+
Spare Card - 85 x 54 x 1mm	ZZ8978	$4.50	$4.05	$3.60

DATA LOGGING SHIELD

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it to be read by any plotting, spreadsheet or analysis program. All data stored is timestamped in real-time so you know precisely what happened when! Uses a 3.3V converter to avoid damaging your SD card. Includes a 3V button battery.

- Stackable headers
- Reset button
- Changeable CR1220 battery
- 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm



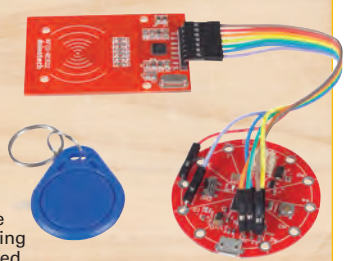
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4536	$24.90	$22.40	$19.90

make it

RFID Password Typer Project

Tired of typing your password every time you need to log into your computer? Then we have just the thing for you. Carry around an RFID tag (or even use a card you might already have in your wallet), and simply wave it over the reader. Your password is typed for you! Wave the card again, and if you are using Windows, your computer is locked. Some soldering, assembly and programming required.



Finished Project

See step-by-step instructions at: jaycar.co.nz/rfid-password-typer

compatability icons

Arduino® Compatible

Raspberry Pi Compatible

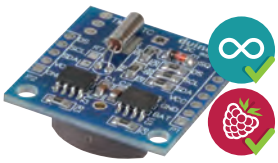
For Microcontrollers
clock & timing:

If you have a project that needs to keep time, even when your Arduino® is powered down, then check out these modules and shields. Sporting a 'Real Time Clock', they have a small battery backed IC which keeps track of the seconds, minutes, hours, days and even years. Operation times of a year can be expected – even longer if the project has external power.

REAL TIME CLOCK (RTC) MODULE

This tiny little module will keep accurate time using the supplied CR2032 button battery. Great to use with all of your Arduino® projects that require the use of the date and time such as clocks, data-loggers and timers.

- Using a 24C32 32k EEPROM
- Supplied with a CR2032 battery
- Read and write functionality
- Usage time approx. 1 year fully charged
- Dimensions: 28(L) x 28(W) x 7(H)mm



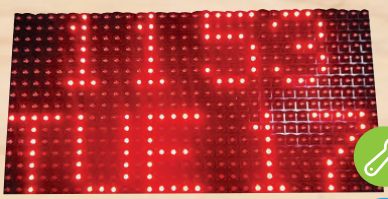
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4450	$7.30	$6.50	$5.80

make it

Matrix Multi Clock With Arduino®

A very cool and useful talking point for your wall, work desk or bedside table. Personalise and change the clock mode to suite your mood or program your own fun message. Code includes six different styles.



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-arduino-clock

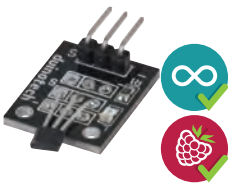
For Microcontrollers
magnetic hall effect:

You'd be surprised at how useful a magnetic sensor can be, especially if you want to sense something without touching it. The duinotech range of magnetic sensors spans simple proximity sensors to detect the presence of a magnet to three dimensional compass sensors for detecting magnetic field directions and strength.

HALL EFFECT SENSOR MODULE

Sense magnetic presence, rotating wheels and magnets, door sensors and any other magnets near this device.

- Output turns on at 30Gauss(3mT) and off at 10Gauss(1mT)
- Operating Voltage: 4.5 - 28VDC
- Schmitt-Trigger output
- Dimensions: 20(W) x 15(L) x 3(H)mm



duinotech

	Cat.	Qty 1+	Qty 5+
	XC4434	$6.90	$6.20

HALL EFFECT SENSOR

UGN3503U HALL EFFECT SENSOR IC

A miniature sensor to accurately track extremely small changes in magnetic flux density - changes generally too small to operate Hall effect switches. Applications include notch sensor, current monitor, gear tooth sensor, etc.

SPECIFICATIONS	ZD1902
Operating Voltage	4.5 - 6VDC
Supply Current	Typ. 9mA
Output Voltage	Typ. 2.5V DC
Output Resistance	50Ω
Size	4.5(W) x 4.5(H) x 1.5(D)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
UGN3503U	ZD1902	$9.50	$8.55	$7.60

For next day delivery, or Click and Collect, see page 5

For Microcontrollers

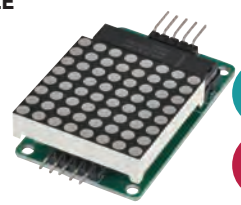
matrix display & control:

Matrix displays offer a cost effective way of creating large signage. The matrix display modules can be combined into multiple rows and columns to create a display as large as you need. Choose from the large range of monochrome or colour matrix display modules, microcontroller driven drivers, and any one of the Arduino® microcontroller boards and you can create an impressive scrolling text and image display board.

8 X 8 LED DOT MATRIX MODULE

A 64 x red LED matrix, this module is easily controlled with the LedControl library. Display your own custom characters, or use multiple modules together to make a scrolling display.

- Operating Voltage: 5VDC
- Protocol: SPI
- Chipset: MAX7219
- LED Colour: RED
- Dimensions: 62(W) x 32(H) x 14(D)mm



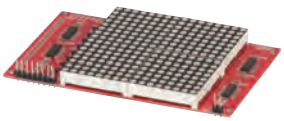
duinotech

	Cat.	Qty 1+	Qty 5+
	XC4499	$10.90	$9.70

16X16 LED DOT MATRIX MODULE

A compact LED Matrix display featuring 256 individually addressable LEDs. Stack multiple boards side by side for a larger display.

- 5V supply required
- 74HC138 decoder IC's
- Includes jumper cables and header strips
- Dimensions: 113(L) x 64(W) x 12(H)mm



duinotech

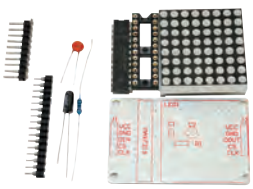
	Cat.	Qty 1+	Qty 5+
	XC4607	$39.90	$35.90

LED MATRIX KIT

This 8x8 LED matrix kit is powered by MAX7219 and it only needs 3 data lines and 2 power lines. It is easy to use and has adjustable brightness. Usually used as electronic display panel. Can be driven in parallel or serial and takes less than 0.1s to light up all 8 rows/columns so a dynamic display can be achieved in either connection.

Includes:

- Chipset: MAX7219
- Electrolytic cpaacitor: 10uF/25V
- Resistor: 10K
- Capacitance: 0.1uF
- Headers and receptacles
- LED Matrix dimensions: 52(L) x 34(W)mm



duinotech

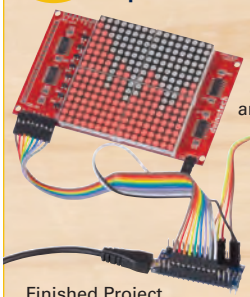
	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4592	$28.90	$25.90	$22.90

GLOSSARY OF TERMS	
Bootloader	The Bootloader is a special piece of code that the microcontroller executes at power-up or under specific conditions and takes care of the loading of the code into Flash memory. If the Bootloader doesn't receive an upload request by the host, it passes the execution to the user sketch.
Sketch	A sketch is the name that Arduino® uses for a program. It's the unit of code that is uploaded to and run on an Arduino® board
Duty cycle	Duty cycle is commonly expressed as a percentage or a ratio, and indicates the amount of time over a certain period that a component is turned on. And a period is the time it takes for a signal to complete an on-and-off cycle. For example, when using a PWM value of 127 (out of a total of 256), you have a 50% duty cycle.
Firmware	Similar to software, however it is stored on non volatile memory and can be executed in place - without being copied in RAM - by a microcontroller. It is used in embedded systems and it is made of machine code instructions. Firmware is usually updateable.
Ground	The point of a circuit where there is 0 potential electrical energy. Without a ground, electricity will not have a place to flow in a circuit.
IDE	Integrated Development Environment. The Arduino® IDE for example, is where users write code to upload to an Arduino® board.

See www.jaycar.co.nz/glossary for more!

make it

Duinotech Audio Matrix Spectrum



Using our compact XC4607 Matrix LED display, this project will give you a small spectrum display that you can sit on your desk, or even next to a speaker. As well as an instantaneous level display, there is also a peak level 'waterfall' effect. There is no soldering required, and it only uses a handful of parts.

Finished Project

See step-by-step instructions at: jaycar.co.nz/audio-matrix-spectrum

84 X 48 DOT MATRIX LCD DISPLAY MODULE

These compact LCD displays are identical to those found in some old Nokia phones, and feature the PCD8544 chipset. An easy way to add a small black and white graphics display to your project.

- 8 pin plug
- SPI interface
- Four mounting holes
- Can work off 3.3V or 5V supply
- Needs 10k resistors for IO pins if running off 5V
- Dimensions: 44(L) x 44(W) x 13(H)mm

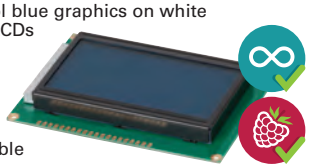
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4616	$24.90	$22.40	$19.90

128 X 64 DOT MATRIX LCD DISPLAY MODULE

A larger display than XC4616 with cool blue graphics on white background. Similar to the character LCDs with inbuilt character ROM, but the flexibility to show graphics as well.

- 5V supply
- 128 pixels wide by 64 pixels high display
- 8 bit, 4bit and serial interfaces available
- White backlight
- Dimensions: 95(L) x 70(W)mm



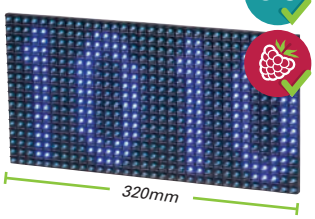
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4617	$36.90	$33.20	$29.50

LARGE DOT MATRIX LED DISPLAY PANELS

Large 32 x 16 pixel LED display for your Arduino® to create message boards, clocks, spectrum analysers, games for the home, office, shop, etc. The controller circuitry is built onboard so the display only needs six digital pins to control all 512 LEDs.

- 10mm LED pitch
- Can be daisy-chained for larger displays
- Use a 5V 3A Power Supply (MP3480) for full brightness
- Dimensions: 320(W) x 160(H) x 30(D)mm



duinotech

		Cat.	Qty 1+	Qty 5+
White		XC4622	$48.90	$44.00
Blue		XC4623	$59.90	$53.90

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For Microcontrollers
displays:

One of the most useful things a device can do is communicate information to us- our smartphones wouldn't be much use without their screens! Your Arduino® is much the same, and most projects require some information to be communicated about the sensors they're reading, or how they're doing at the little task we've set them to. Here's a guide to the many different displays that make up the Arduino® range, and some tips on choosing the best one for your application. Whether it be reading out a single number or some brief words, or even a complex graphical display, there's one to suit your project.

3.5 INCH TOUCHSCREEN WITH ENCLOSURE & STYLUS

duinotech NEW

Perfect for prototyping or to set up a portable device with your Raspberry Pi 3B+. The 3.5" LCD touchscreen requires minimal setup. Supplied with a handy stylus and protective case.

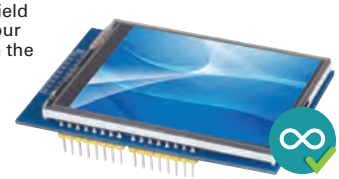
Note: Raspberry Pi 3B+ sold separately

SPECIFICATIONS	XC4631
Screen Type	Resistive TFT
LCD Interface	SPI
Screen Controller	XPT2046
Colours	65536
Backlight	LED
Resolution	480 x 320

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4631	$56.90	$50.90	$44.90

240X320 LCD TOUCH SCREEN

A large, colourful touch display shield which piggy-backs straight onto your Uno or Mega. Display photos from the Micro SD card slot on the display to create a slick and professional-looking project.



- 320x240 pixel resolution
- Fast Parallel interface
- Micro SD Card slot
- Resistive touch interface
- Dimensions: 77(L) x 52(W) x 19(H)mm

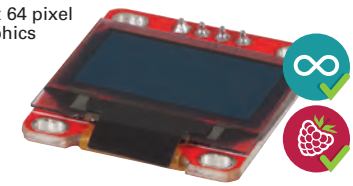
duinotech

	Cat.	Qty 1+	Qty 4+
	XC4630	$36.90	$33.20

MONOCHROME OLED DISPLAY MODULE

A tiny Arduino® compatible 128 x 64 pixel OLED display. Monochrome graphics with wide viewing angle and I2C interface.

- SSD1306 Chipset
- 22mm x 22mm x 12mm



duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4384	$33.90	$29.90	$26.90

make it

Pong Game With Arduino®

Create your own version of the classic Pong game with one of our super bright LED matrix boards and an Arduino® Nano. Make a stylish talking point for your wall or coffee table, or just a fun game to play. Easy to assemble with duinotech parts & no soldering, this retro project is something all ages can enjoy.

Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-pong-game

ACRYLIC ENCLOSURE FOR XC4624 RGB LED CUBE

This enclosure is made from tough 2.5mm acrylic, and houses the XC4624 LED Cube Kit. It protects it from damage, and makes it look great!

duinotech

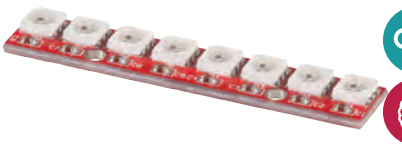
SPECIFICATIONS	XC4625
Weight	115g
Dimensions	82 x 82mm, 100 x 70mm
Thickness	2.5mm

	Cat.	Qty 1+
	XC4625	$16.90

RGB LED STRIP MODULE

Strip of eight RGB LEDs which can be controlled by a single Arduino® pin. Up to 1000 LEDs can be daisy chained and run from one pin.

- 5V supply.
- Eight RGB LEDs
- Each channel has 256 brightness levels
- Current draw 500mA per module maximum
- 54(L) x 10(W) x 3.5(H)mm



duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4380	$10.90	$9.90	$8.90

8 DIGIT 7 SEGMENT DISPLAY MODULE

Building a project with heaps of 7-segment displays is always going to look awesome, but unless you have the right hardware, it can use up a lot of IO pins. The MAX7219 based 8 Digit 7 Segment Display module takes care of that, running all eight digits from just three IO pins. Extra units can be daisy-chained from the end of the previous unit for truly huge displays.

- SPI interface
- 15mm panel height with red 9mm digits
- MAX7219 features dimming and digit decoding

	Cat.	Qty 1+	Qty 4+	Qty 10+
8 Digit 7 Segment Display Module	XC3714	$10.90	$9.90	$8.90

LED TRAFFIC LIGHT MODULE FOR ARDUINO

RED, YELLOW, GREEN. Stop, Caution, Go. These are universal colour codes, and this Arduino® module has many uses. From creating a miniature set of traffic lights for understanding how they work, through to building a model roadway or even setting up a basic status display for your next project.

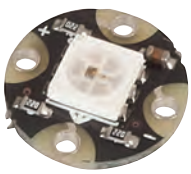
- 10mm Red, Yellow, Green LEDs
- Inbuilt dropping resistors
- Right angle plugs for standing up in breadboard
- Common ground connection

	Cat.	Qty 1+	Qty 5+
	XC3720	$14.90	$13.90

WS2812 RGB LED MODULE

The WS2812 RGB LED module provides full PWM control of the three LED channels in a single IC with control from a single pin. The IC is mounted on a small PCB that suits 0.1" pitch protoboards and breadboards. Can daisy-chain modules.

- Great for creating custom RGB LED displays
- Same IC as XC4380 Arduino® module



	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD0272	$5.60	$5.00	$3.90

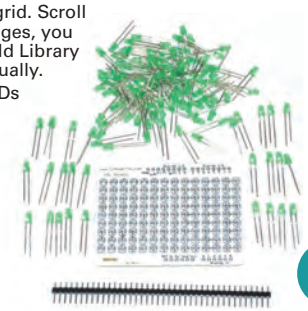
For next day delivery, or Click and Collect, see page 5

For Microcontrollers: Displays CONTINUED

LOL SHIELD

The LoL Shield is a charlieplexed LED matrix for the Arduino®. LEDs are individually addressable so you can use it to display anything in a 9 x 14 grid. Scroll text, play games or display images, you can choose to use the LoL Shield Library or program the animation manually.

- 126 individually controlled LEDs
- Great DIY solder project



duinotech

	Cat.	Qty 1+
	XC4546	$22.90

I2C PORT EXPANDER MODULE FOR LCD'S

The HD44780 compatible LCDs are great for displaying text and simple graphics, but quickly use up your available microcontroller pins. Using the PCF8574 port expander IC, you can control these LCDs using just 2 pins via I2C. The breakout board offers pin multiplexing, contrast control pot, LED backlight jumper control, and up to 8 unique addresses via solderable jumpers.

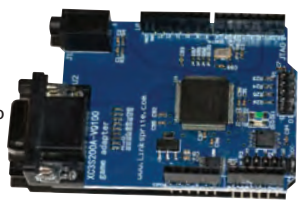
- Designed to solder directly to 16pin SIL headers
- Mounts behind LCD panel, taking up minimal space
- Arduino® libraries offer direct LCD control

	Cat.	Qty 1+	Qty 4+	Qty 10+
I2C Port Expander for LCD's	XC3706	$10.90	$9.90	$8.90

GAMEDUINO

Gameduino is a game adaptor for Arduino® (or anything else with an SPI interface) built as a single shield that stacks up on top of the Arduino® and has plugs for a VGA monitor and stereo speakers. The sound and graphics are definitely oldschool, but thanks to the latest FPGA technology, the sprite capabilities are a step above those in machines from the past. The adaptor is controlled via SPI read/write operations, and looks to the CPU like a 32Kb RAM.

- Video Output 400x300 pixels in 512 colours
- Compatible with any standard VGA monitor (800x600 @ 72Hz)



duinotech

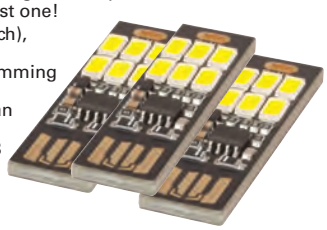
	Cat.	Qty 1+
	XC4550	$56.90

USB MINI LED TOUCH MODULES - 3 PACK

NEW

Featuring 6 tiny LEDs, these little lights are about the size of a USB flash drive, but have a touch-controlled light! Plug them in to computers, wall sockets with USB, and anything else you have with a USB outlet! Simply touch to activate on / off, or touch and hold for dimming. Sold in packs of three, because you'll never want just one!

- Touch control - ON/OFF (quick touch), Dimming (Continuous)
- With smart touch electrodeless dimming switch
- Double USB design, both sides can be used as plug
- Compatible with all standard USB devices such as power banks, mobile chargers, computers or laptops, etc



	Cat.	Qty 1+	Qty 3+	Qty 6+
3 Pack	ZD1688	$10.90	$9.90	$8.90

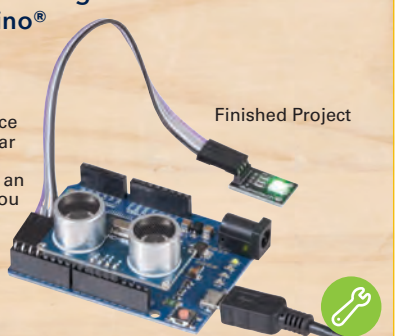
tech talk — About Scratch & S4A

Scratch is an easy to learn technology language designed by MIT Media Labs and is mainly intended to introduce programming to children aged 7 to 16. The Arduino® community have modified Scratch and created S4A. S4A allows for simple programming of the Arduino® open source hardware platform. It provides new blocks for managing sensors and actuators connected to Arduino®. Arduino® objects offer blocks for the basic microcontroller functionalities, analogue and digital writes and reads, and also for higher level ones. In S4A, an Arduino® board is represented by a special kind of sprite. The Arduino® sprite will automatically find the USB port where the board is connected. It is possible to connect to multiple boards at the same time by just adding a new Arduino® sprite.

Components have to be connected in a particular way. S4A allows for 6 analog inputs (analog pins), 2 digital inputs (digital pins 2 and 3), 3 analogue outputs (digital pins 5, 6 and 9), 3 digital outputs (pins 10, 11 and 13) and 4 special outputs to connect Parallax continuous rotation servomotors (digital pins 4, 7, 8 and 12). A board can be managed wirelessly by attaching an RF module to it, such as Xbee. S4A allows control of many boards as USB ports that are available. S4A is backwards compatible with Scratch, so you can open Scratch projects in it. However, you won't be able to share your projects on the Scratch community website because doing so goes against the Scratch terms of use.

make it — Ultrasonic Parking Assistant With Arduino®

Here is a great project to help you park your car in your garage. It simply uses an ultrasonic distance sensor to measure how far away the car is from the sensor, and then light up an RGB LED module to let you know how close you are. A simple job perfectly suited to an Arduino® project.



See step-by-step instructions at: jaycar.co.nz/ultrasonic-parking-assistant

Kent Muller likes to

think. possible.

"Heads up technology will start out small in consumer land but combined with AI-based facial recognition it will explode in the military and industrial environments in the coming 10 years. "

product data:

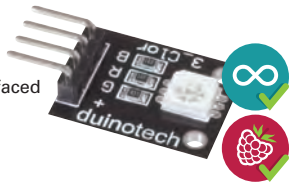
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

For Microcontrollers

LED & laser:

Sometimes when you need to provide output from a project, a full-on display is too much, or takes up too much space. The modules below are great if you want to your sketch to show what's going on with a simple 'GREEN IS OK' type of indication. If you want to shine some light and a basic LED is not enough, look at the higher powered XC4468 LED or XC4490 Laser modules.

RGB LED MODULE



Using a 5050 RGB LED, by adjusting a PWM signal on the three primary colours the user can gain the full colour spectrum. This tiny module can be interfaced with a variety of microcontrollers.

- 3.3V to 5V operation
- 4 pin header
- Common ground LED
- Dimensions: 25(L) x 15(W) x 2(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4428	$5.90	$5.30	$4.70

3W LED MODULE

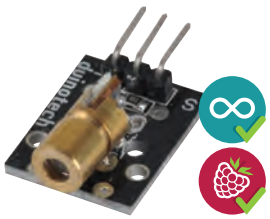
A high brightness LED in an easy to use modular package. Includes a PWM input for brightness control.

- Operating Voltage: 5VDC
- Power Consumption: 3W
- Light Output: 200 Lumens
- Colour Temperature: 6000K
- Dimensions: 30(L) x 23(W) x 6(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4468	$13.90	$12.50	$11.10

RED LASER DIODE MODULE



Need a red laser light for your latest project? Here it is! Everything you need to drive the laser diode is included on the board. Just connect it to 5VDC and you're good to go! Use it with our light sensor module XC4446 to make a laser tripwire.

- Operating Voltage: 5VDC
- Output power: <1mW
- Wavelength: 650nm(Red)
- Dimensions: 45(W) x 23(D) x 10(H)mm

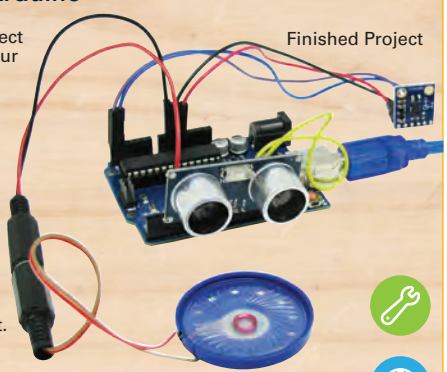
duinotech

Cat.	Qty 1+	Qty 5+
XC4490	$6.90	$6.20

make it

Ultrasonic Distance Reader With Arduino®

Here is a great project to help you park your car in your garage. It simply uses an ultrasonic distance sensor to measure how far away the car is from the sensor, and then light up an RGB LED module to let you know how close you are. A simple job perfectly suited to an Arduino® project.



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-udcr

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

For Microcontrollers

obstacle avoidance & distance detection:

What good is a robot if it can't gather information about its surroundings? This collection of modules is ideal to add to a robot or roving autonomous project. You could use an array of XC4442 Ultrasonic Sensor Modules to map out a robot's surroundings and have the Arduino® plan its next movement, or use the XC4611 Triple Reflectance Module to sense the surface underneath your robot, or even create a space age musical instrument like the Ultrasonic Theremin.

PIR MOTION DETECTOR MODULE

A pyroelectric infrared PIR motion sensor is a handy addition to any Arduino® project. Wide operating range and delay times changeable via two potentiometers giving this module versatility to the user, it is a must for any security application.

- Working voltage: 5-20VDC
- Quiescent current: 65uA
- Level output voltage: High 3V / Low 0V
- Delaying time 0.3-18s
- Dimensions: 32(L) x 24(W) x 25(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4444	$7.90	$7.20

DUAL ULTRASONIC SENSOR MODULE

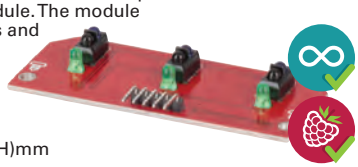
The popular HC-SR04 ultrasonic distance module provides an easy way for your duinotech to measure distances up to 4.5m. Use it to add obstacle avoidance to your next robotics project or mount it on a servo to create your own ultrasonic SONAR!

- Uses just two digital pins
- Operating Voltage: 5V
- Sensor Angle: <15°
- Detection Distance: 20mm - 4.5m
- Dimensions: 45(W) x 20(D) x 13(H)mm

duinotech

Cat.	Qty 1+	Qty 5+
XC4442	$10.90	$9.70

TRIPLE REFLECTANCE SENSOR MODULE



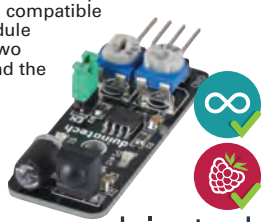
Create a smarter line-following robot with the Triple Infrared Reflectance Sensor Module. The module has three evenly spaced sensors and mounting holes.

- CTRT5000 Sensor IC
- 5V Supply required
- Only 2 pins needed for power and 3 for outputs
- Dimensions: 69(L) x 32(W) x 8(H)mm

duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4611	$9.90	$8.90	$7.90

INFRARED OBSTACLE AVOIDANCE SENSOR MODULE



This module is an inexpensive solution for an obstacle avoidance sensor, perfect for robotic projects and very easy to interface directly with Arduino® and compatible boards. It also works with our pcDuino module by using the 3.3V output. The module has two potentiometers one to control frequency and the other to control the intensity.

- 5VDC operation
- Adjustable frequency and intensity
- 4 pin header
- Dimensions: 42(L) x 27(W) x 18(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4524	$8.90	$8.00	$7.10

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

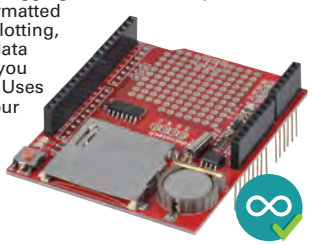
For next day delivery, or Click and Collect, see page 5

For Microcontrollers
data storage:

An Arduino® has a fairly limited amount of storage (certainly compared to the terabytes of data that can be stored on some hard drives), so the shields and modules below can be used to provide an extra place to log data or store resources for your sketch. You might even use one of them to write to a removable card to make it easy to get data to and from a computer.

DATA LOGGING SHIELD

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it to be read by any plotting, spreadsheet or analysis program. All data stored is timestamped in real-time so you know precisely what happened when! Uses a 3.3V converter to avoid damaging your SD card. Includes a 3V button battery.



- Stackable headers
- Reset button
- Changeable CR1220 battery
- 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4536	$24.90	$22.40	$19.90

SD CARD INTERFACE MODULE

Features 5V and 3.3V power inputs and resistors to allow safe on either IO voltage.

- Push-pull style SD Card Socket
- Works with inbuilt Arduino® Libraries
- 52(L) x 31(W) x 12(H)mm

duinotech

Cat.	Qty 1+	Qty 4+	Qty 10+
XC4386	$10.90	$9.90	$8.90

SIM CARD BREAKOUT BOARD

This is a full 8-pin breakout for the SIM socket allowing direct access to SIM communication. Features a Lock and Open switch.

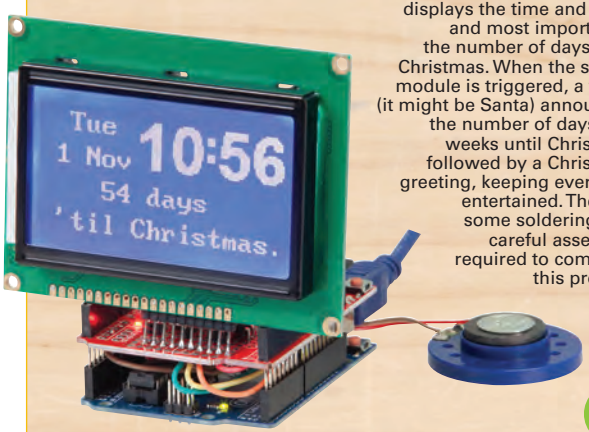
duinotech

Cat.	Qty 1+
XC4596	$16.90

make it

Christmas Countdown Clock

This fun to build clock displays the time and date, and most importantly the number of days until Christmas. When the sound module is triggered, a voice (it might be Santa) announces the number of days and weeks until Christmas followed by a Christmas greeting, keeping everyone entertained. There is some soldering and careful assembly required to complete this project.

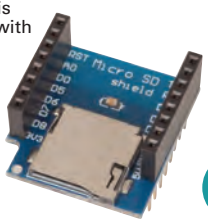


Finished Project

See step-by-step instructions at: jaycar.co.nz/christmas-clock

MICRO SD CARD SHIELD FOR WI-FI MINI

Add gigabytes of storage to your XC3802 Wi-Fi Mini Main Board with this tiny shield and a Micro SD card. If you are using the XC3802 Wi-Fi Mini Main Board as a WebServer or even for datalogging, you're probably going to need more storage space, and this shield lets you use cheap Micro SD cards with the easy-to-use Arduino® SD library.



- CS on D8
- Stackable Headers pre-soldered to allow more shields to be added
- Works with Arduino's inbuilt SD library
- 3.3V compatible only

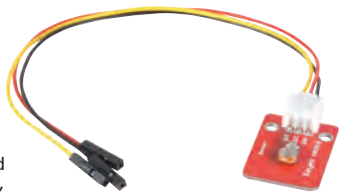
Cat.	Qty 1+	Qty 3+	Qty 6+
XC3852	$10.90	$9.90	$8.90

For Microcontrollers
temperature / environment:

There's no shortage of Arduino® weather station projects online, and with the duinotech range of sensor modules, you can create your own fully featured version. Alternatively, if you just want to check if the plants need watering or know if the sun is shining or how hot it is outside, we've got you covered with the range here.

PHOTOSENSITIVE LDR MODULE

Measure light levels with this sensor module. This module uses a light dependant resistor to produce an output voltage that varies with light level. Connect it straight into your duinotech or other Arduino® compatible board to build a night/day sensor, a sun tracker or combine it with our laser module XC4490 to make a laser trip wire.



- Operating voltage: 3-5VDC
- Includes breakout cable
- Dimensions: 29(W) x 22(D) x 10(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4446	$7.30	$6.50	$5.80

ULTRAVIOLET SENSOR MODULE

This module will measure the UV light and adjust the output voltage depending on the UV intensity. Capable of measuring over a wide spectral range of 200nm-370nm, this module is a valuable addition for weather station projects or in any place which require stable and accurate measurement of UV light.

- Working Voltage 3-5V DC
- Output voltage 0-1200mV
- Current 0.06-0.1mA
- Response wavelength 200-370nm
- Working temperature: -20 to 85˚C
- Dimensions: 43(L) x 13(W) x 8(H)mm

duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4518	$33.90	$29.90	$26.90

COLOUR SENSOR MODULE

One of the Arduino® projects that everyone should try is the coloured lolly sorter, and you can't build one of these without a colour sensor. The Colour Sensor Module can give individual greyscale, red, green and blue colour levels with just three IO pins, and features bright white LEDs for even illumination.

- Mounting holes for easy project building
- Can be set to read red, green, blue or greyscale levels
- Very fast response times with PWM output
- Optimal detection distance 1cm

Cat.	Qty 1+	Qty 4+	Qty 10+
XC3708	$22.90	$20.90	$17.90

p.312 - for SD cards

Temperature / Environment CONTINUED

NON-CONTACT IR SENSOR MODULE

If you've ever wanted to add non-contact temperature sensing to an Arduino® project, here is the module. Accurate to half a degree in ambient conditions, it offers +-40 degree field of view. Create a thermal image scanner with a couple of servos and a PTZ mechanism (YM2758 and XC4618), or use it for person tracking and detection.

- I2C interface
- Arduino® libraries available (search for MLX90614)
- Tiny module size

	Cat.	Qty 1+	Qty 4+	Qty 10+
Non-contact IR Sensor Module	XC3704	$33.90	$29.90	$26.90

SMOKE DETECTOR SENSOR MODULE

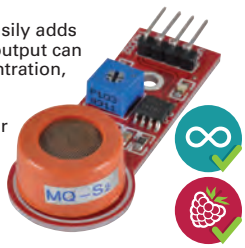
NEW

A compact smoke detector module that can detect butane, propane, methane, alcohol, hydrogen, and smoke. Suitable for home automation and safety projects.

- Power: 5V
- Interface: Analogue
- Dimensions: 40(L) x 20(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4470	$8.90	$8.00	$7.10

ALCOHOL SENSOR MODULE



Using a MQ series gas sensor, this module easily adds alcohol detection to your project. An analog output can be used to monitor changes in alcohol concentration, while a digital output is triggered when the concentration exceeds a pre set threshold. Build your own breathalyser or automate your home-brewing.

- Twin Analog and Digital Outputs
- Adjustable sensitivity
- Operating voltage: 5VDC
- Dimensions: 50(L) x 20(W) x 13(H)mm

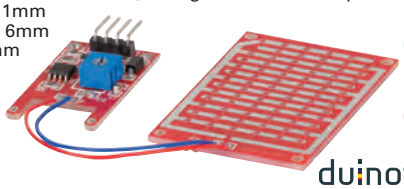
duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4540	$11.90	$10.70	$9.50

RAIN SENSOR MODULE

Add another dimension to your Arduino® weather project. This compact module can be used to detect rain, and can be separated into a sensor and control board to keep the important bits dry.

- 5V supply needed.
- Adjustable sensitivity
- LED indicator
- TTL level output can drive 100mA, enough for a small relay or buzzer
- Sensor: 50 x 35 x 1mm
  Control: 47 x 26 x 6mm
  Wire Length: 75mm



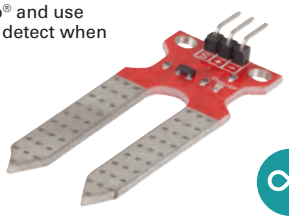
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4603	$8.90	$8.00	$7.10

SOIL MOISTURE SENSOR MODULE

Automate your garden with Arduino® and use the Soil Moisture Sensor Module to detect when your plants need watering.

- Analog output
- Works on 3.3V or 5V
- Current less than 20mA
- Dimensions:
  62(L) x 20(W) x 7(H)mm

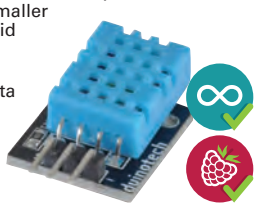


duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4604	$5.90	$5.30	$4.70

DHT11 DIGITAL TEMPERATURE & HUMIDITY SENSOR

Measure both temperature and humidity with this nifty module. Full digital operation so no analog to digital calibration is required. Faster than XC4432, but less accurate and with a smaller temperature range. Use when expecting rapid changes in temperature.



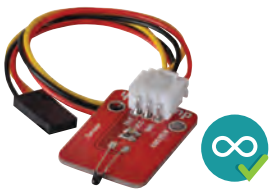
- Arduino® library available.
- Protocol: 1-Wire (Not Dallas 1-Wire, one data pin is required per sensor used)
- Operating Voltage: 3-5 VDC
- Temperature Range: 0 °C - 50 °C +/- 2 °C
- Humidity Range: 20 – 80% +/- 5%
- Sample Rate: 1Hz
- Dimensions: 52(W) x 20(L) x 13(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4520	$11.90	$10.70	$9.50

TEMPERATURE SENSOR MODULE

This module provides a simple way to measure temperature. The module outputs an analog voltage that varies directly with temperature. Connect it straight to one of your duinotech analog inputs.



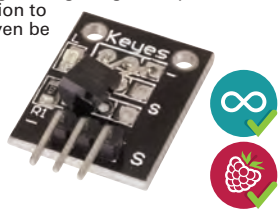
- Operating voltage: 5VDC
- 210mm breakout cable included
- Dimensions: 33(W) x 22(D) x 9(H)mm

duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4494	$7.30	$6.50	$5.80

DIGITAL TEMPERATURE SENSOR MODULE

The DS18B20 Digital temperature Module provides up to 12bits of resolution and 0.5 degree accuracy through a single digital IO pin with no external components needed for connection to a microcontroller. Multiple devices can even be connected to the same pin.



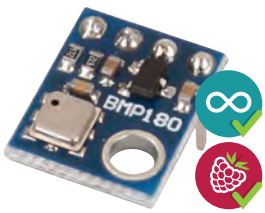
- Fully digital operation
- Conversion time less than 1 second
- Arduino® library (OneWire) available

	Cat.	Qty 1+	Qty 4+	Qty 10+
Digital Temperature Sensor	XC3700	$7.90	$7.10	$6.30

BAROMETRIC PRESSURE SENSOR MODULE

There's heaps of different uses for a barometric sensor, such as using it to forecast the weather or measuring altitude. The Bosch BMP180 sensor also includes a temperature sensor, and is accessible via an I2C interface.

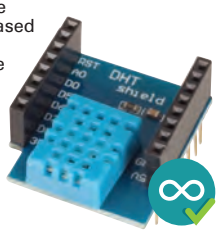
- 0.01hPa and 0.1 degree accuracy (altitude accuracy about 1m)
- Libraries available to given direct altitude readout (search for BMP180)
- Tiny module size



	Cat.	Qty 1+	Qty 4+	Qty 10+
Barometric Pressure Sensor	XC3702	$22.90	$20.90	$17.90

DHT 11 SHIELD FOR WI-FI MINI

Create a tiny environmental sensor node with the XC3802 Wi-Fi Mini Main Board and this DHT11 based temperature and humidity sensor shield. Pre-soldered stackable headers allow the shield to be plugged straight into Wi-Fi Mini Main board, and more boards to be added on top.



- Tiny sensor shield
- Uses pin D4 for DHT11 interface
- Arduino® libraries available
- Suitable to plug into breadboard for prototyping

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC3856	$10.90	$9.90	$8.90

For next day delivery, or Click and Collect, see page 5

For Microcontrollers

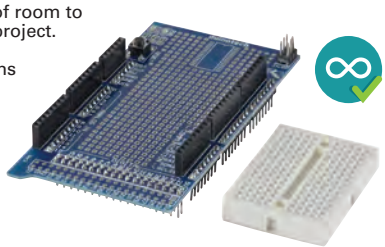
prototyping & breakout:

The following parts are ideal for taking that design that you've squashed onto a breadboard, and making it into something more permanent. With prototyping space, you can solder individual components or even whole modules together to create a custom shield that is much more robust.

PROTOTYPING SHIELD FOR DUINOTECH - MEGA

This shield gives you plenty of room to prototype your latest MEGA project. The stackable shield provides access to all of the MEGAs pins and plenty of solder pads to prototype on. A small solder-less breadboard is included for fast prototyping.

- Dimensions: 106(W) x 56(L) x 19(H)mm



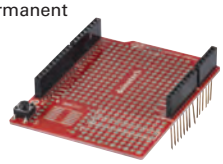
duinotech

	Cat.	Qty 1+	Qty 5+
	XC4416	$17.90	$16.10

PROTOTYPING SHIELD

This stackable shield makes semi-permanent prototyping simple. When you want something more permanent than a breadboard, but don't want to make your own PCB, this shield is the answer. Provides solder-pad access to all of the Arduino®'s pins, and a large area of isolated pads.

- Includes reset button
- SOIC-14 breakout, for surface mount ICs
- Dimensions: 68(L) x 53(W) x 10(H)mm



duinotech

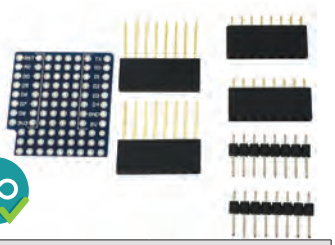
	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4482	$19.90	$17.90	$15.90

PROTOTYPING SHIELD FOR WI-FI MINI

A prototyping shield to suit the XC3802 Wi-Fi Mini main board. Create custom hardware and add features to your project or build custom sensor nodes or output modules.

Includes:

1 x Protoboard
2 x Male Header Strip
2 x Female Header Strip
2 x Stackable Header Strip

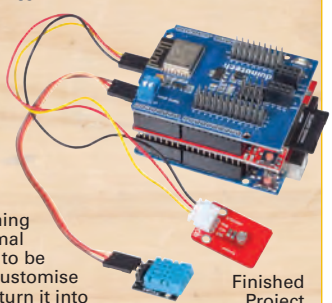


	Cat.	Qty 1+	Qty 3+	Qty 6+
Prototyping Shield for Wi-Fi Mini	XC3850	$5.60	$5.00	$4.40

make it

Wi-Fi Environmental Datalogger

Another handy Arduino® based tool to add to your workbench. The Environmental Datalogger measures temperature, humidity and light levels and logs it to an SD card with the time of the reading. The data is saved as a .csv file, opening straight into an Excel spreadsheet, for easy graphing and analysis. It also hosts a minimal web-server, allowing the log files to be downloaded over Wi-Fi. You can customise it to measure and log other data, turn it into a weather station, see how your homebrew beverage is going (how we use it), or add GPS to create a tracker. No doubt, you will agree, it's a really handy project!



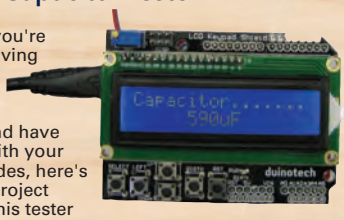
Finished Project

See step-by-step instructions at: jaycar.co.nz/wifi-datalogger

make it

Resistor & Capacitor Tester

If like us you're always having to sort through your junk drawer and have trouble with your colour codes, here's a handy project for you. This tester will try to work out whether you are connected to a resistor or a capacitor and then show you the relevant value. If it's a resistor, it'll also suggest the nearest resistor from the Jaycar ½W range. No more sorting through your draws blindly!



Finished Project

See step-by-step instructions at: jaycar.co.nz/rct

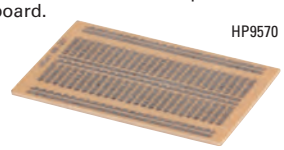
BREADBOARD LAYOUT PROTOTYPING BOARDS

A prototyping board that lets you transfer your breadboard design without having to rework it. Includes five holes on each side per row and power rails running the length of the board.

Two sizes to choose from:

SMALL:

- 25 rows
- 400 holes
- Similar layout to PB8820 Breadboard
- 73mm x 47mm x 1.4mm



HP9570

LARGE:

- 59 rows
- 862 holes
- Similar layout to PB8815 Breadboard
- 155mm x 58mm x 1.4mm

HP9572

	Cat.	Qty 1+	Qty 4+	Qty 10+
400 hole	HP9570	$5.60	$5.00	$4.45
862 hole	HP9572	$10.90	$9.90	$8.90

Dan Clark likes to

think. possible.

"I think the voice controlled home automation area will expand greatly to include just about anything with a power plug over the next 5-10 years. I currently control my pool pump, lights, air-con etc. Can't wait to see what I can integrate with next!"

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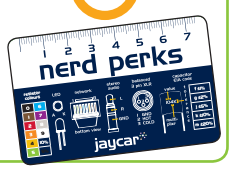


find out more in store

Our staff offer friendly and helpful service. We're here to help.

For Microcontrollers Programming

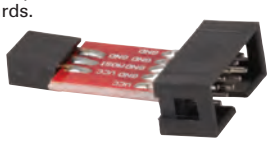
uploading & custom:

If you feel like there isn't quite an Arduino® main board or module that suits what you're trying to build, or your stack of shields is just too big, the parts below can help you make the next step towards custom building your own board. The various programmers will also allow you to explore the world beyond what the default Arduino® IDE and bootloaders offers. Did you know you can even use the XC4464 USB to Serial Adaptor to program the XC4614 Wi-Fi Shield as though it was a stand-alone Arduino® board?

AVR ISP 10 PIN TO 6 PIN ADAPTOR

Adaptor from 10pin ISP header to 6 pin ISP header as found on Arduino® boards.

- Use with an ISP programmer to update bootloaders or reflash bricked boards
- 10 pin plug to 6 pin socket



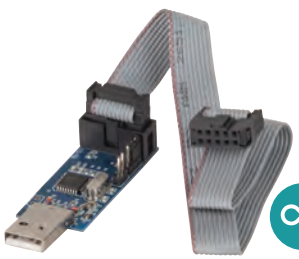
duinotech

Cat.	Qty 1+	Qty 5+	Qty 10+
XC4613	$5.90	$5.30	$4.70

ISP PROGRAMMER FOR AVR

Compatible with Arduino® boards with ISP, ZZ8727 ATmega328P MCU and fully supported by the Arduino® IDE, allowing you to unbrick, install or update Arduino®-compatible boards and your own custom-made projects.

- Compatible with a wide range of microcontrollers, including all Duinotech main boards
- 10 pin ISP programming cable included (use XC4613 to convert to 6 pin)



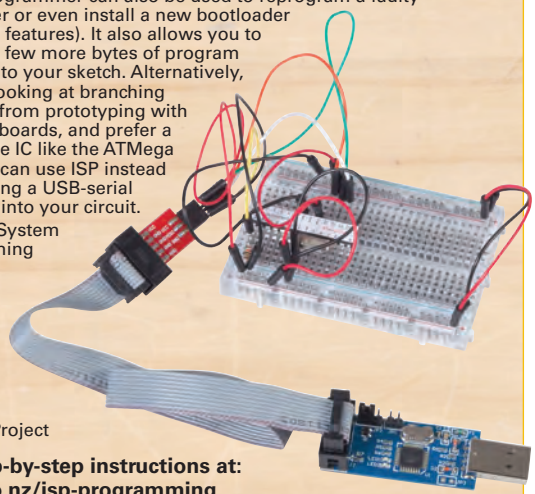
duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4627	$18.90	$17.00	$15.10

make it — ISP* Programmer With Arduino®

A handy tool to have in your Arduino® Kit. Aside from giving you a faster way of programming your Arduino® Boards, an ISP programmer can also be used to reprogram a faulty bootloader or even install a new bootloader (with new features). It also allows you to squeeze a few more bytes of program storage into your sketch. Alternatively, if you're looking at branching out away from prototyping with Arduino® boards, and prefer a standalone IC like the ATMega 328P, you can use ISP instead of designing a USB-serial converter into your circuit.

*ISP = In System Programming



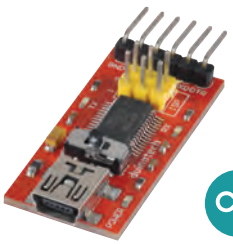
Finished Project

See step-by-step instructions at: jaycar.co.nz/isp-programming

FTDI USB TO SERIAL MODULE

A mini-USB to 6-pin serial port module used to communicate with Arduino® boards and modules. It uses the original FT232 chip with power/sending/receiving indicator and also a selectable 3.3V and 5V power option to suit different boards.

- 3.3V & 5VDC power switch
- Send & receive indicators
- Dimensions: 43(L) x 17(W) x 12(H)mm

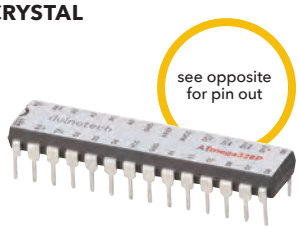


duinotech

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4464	$24.90	$22.40	$19.90

ATMEGA328P MCU IC WITH ARDUINO® UNO BOOTLOADER & 16MHZ CRYSTAL

An Atmel AVR ATmega328P microcontroller for you to build your very own customised Arduino® compatible projects. For your convenience it comes with the Arduino® Uno bootloader preinstalled and features a label on top which details the pinouts. Includes 16MHz crystal oscillator.



see opposite for pin out

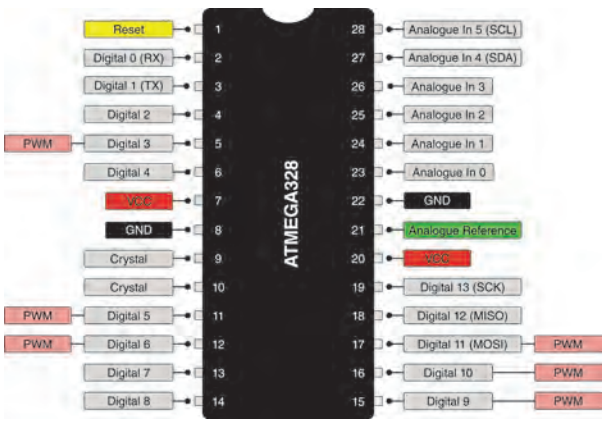
- Same IO pins as Duinotech Uno Board
- 0 - 4MHz @ 1.8 - 5.5V, 0 - 10MHz @ 2.7 - 5.5V, 0 - 20MHz @ 4.5 - 5.5V
- 28-pin DIP format for easy use in breadboards or Arduino® compatible boards

duinotech

Cat.	Qty 1+	Qty 10+	Qty 25+
ZZ8727	$15.90	$14.30	$11.10

tech talk — Useful Pinouts

Below is the pinout diagram of the ATMega328 microcontroller IC, found on the popular Arduino® Uno board. You'll find this diagram handy if you're prototyping on some breadboard instead of using one of our pre-built modules. See our ATMega328P micro and crystal kit (ZZ8727) shown right.



tell a friend

If you have a technical friend or someone who may be just interested in some of the products we stock, tell them to email their address details to:

CATALOGUE DEPARTMENT - JAYCAR:

catalogue@jaycar.com

Anthony Metzen likes to

think. possible.

"I created a Facebook event on May 31, 2017, where I have a bet that an AI device (similar to a smart watch) in 5 years time will not need to be taken off for charging and is a near permanent fixture on your arm, maybe charging via body heat."

For Microcontrollers

Linker modules & accessories:

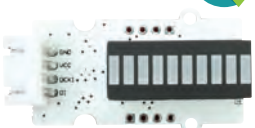
The Linker range is based around a series of Arduino® compatible modules, shields and cables that make prototyping easy - so easy that we'd recommend that even primary school children would be able to use them. With the Ardublocks Arduino® IDE add-on, even programming becomes as simple as drag and drop.

The Linker Base Shield attaches to the Uno, Mega or Leonardo boards, and allows any of the Linker modules to be plugged in. No need to worry about getting connections reversed and blowing up components - they can only be plugged in one way. There's over twenty different modules in the Linker range, and because the Linker Base Shield has standard Arduino® headers, you can even add any of our duinotech modules if you need to go beyond what Linker can offer.

LINKER LED BAR FOR ARDUINO®

This LED bar is a standard Linker kit module, so it can connect to Arduino® or pcDuino easily via the base shield. The LED bar has 10 light gauges to use as an indicator for various measurements.

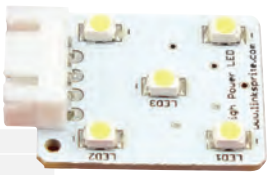
- Driver Chip: MY9221
- Dimensions: 44.1(W) x 24.2(H) x 11.5(D)mm



	Cat.	Qty 1+	Qty 5+
10 Segments	XC4568	$11.90	$10.70

LINKER HIGH POWER LED MODULE FOR ARDUINO®

This is a high power LED module for the Linker kit. It has five very bright white LEDs to use as lamp or camera flash.



SPECIFICATIONS	XC4570
LEDs	SMD 3528
Working Voltage	3.0-3.4V
Operating Current	20mA
Dimensions	28.9(W) x 20(H) x 9.5(D)mm

	Cat.	Qty 1+	Qty 5+
5 LED	XC4570	$16.90	$14.90

tech talk — Programming Made Easy

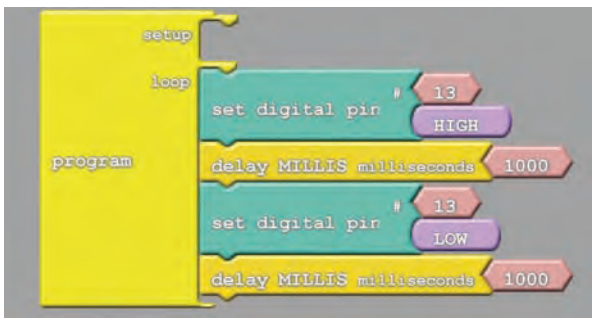
If you are just starting out or just can't get your head around programming your Arduino® project then ArduBlock makes it easy. ArduBlock is a graphical drag-and-drop type programming environment for Arduino®. It's also ideal for kids!

By dragging and dropping colour coded blocks into the workspace, a fully functioning Arduino® program can be created within minutes. But just because ArduBlock is easy doesn't mean it's not powerful. You have access to most Arduino® IDE functions and a few libraries as well. And to help you make the transition to the full Arduino® IDE, ArduBlock also turns your blocks into standard Arduino® code as well. Brilliant!

To learn more about ArduBlock visit:

www.jaycar.co.nz/ardublock

The diagram shows you how simple it is to program the classic Arduino® 'Blink' program using ArduBlock.



Arduino® Compatible

Raspberry Pi Compatible

LINKER MOMENTARY PUSH BUTTON SWITCH FOR ARDUINO®

A standard 12mm square momentary button mounted for the Linker connection. The button is big and has a solid tactile click for assurance. Can be used as an input or as a reset button.

- Dimensions: 26(W) x 25(H) x 10.9(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
6V 40mA	XC4571	$6.90	$6.20	$5.50

LINKER LEDS FOR ARDUINO®

Linker LED Module is designed for beginners of Arduino®/pcDuino to monitor controls from digital ports. It can be mounted to your project easily and used as pilot lamp for power or signal. Its brightness can be adjusted by potentiometer.

XC4561

LINKER 3MM MODULES

Available in three colours green, red and yellow (purchased separately)

- LED Size: 3mm
- Dimensions: 23(W) x 24.2(H) x 9.5(D)mm

LINKER 10MM MODULES

Available in four colours blue, green, red and yellow (purchased separately)

- LED Size: 10mm
- Dimensions: 20.4(W) x 24.2(H) x 21(D)mm

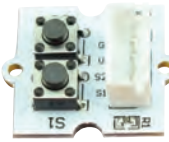
XC4564

Colour	Size	Cat.	Qty 1+	Qty 5+
Green	3mm	XC4561	$6.90	$6.20
Red	3mm	XC4562	$6.90	$6.20
Yellow	3mm	XC4563	$6.90	$6.20
Blue	10mm	XC4564	$7.30	$6.50
Green	10mm	XC4565	$7.30	$6.50
Red	10mm	XC4566	$7.30	$6.50
Yellow	10mm	XC4567	$7.30	$6.50

LINKER DOUBLE BUTTON MODULE FOR ARDUINO®

Two momentary push buttons mounted on a single board for Arduino®/pcDuino via the Linker connection. Can be used as a pair of reset and switch buttons.

- Dimensions: 25(H) x 21(W) x 11(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4573	$6.90	$6.20	$5.50

LINKER TILT MODULE FOR ARDUINO®

The Linker Tilt Module is the equivalent of a button, and is used as a digital input. Inside the tilt switch is a pair of balls that make contact with the pins when the case is upright. Tilt the case over and the balls don't touch, thus not making a connection. It is wired to the SIG line, NC is not used on this kit.

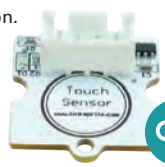
- Dimensions: 28(L) x 26(W) x 11(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4575	$6.90	$6.20	$5.50

LINKER TOUCH SENSOR FOR ARDUINO®

A capacitive touch sensor to replace a push button. Low in power consumption, fast response and easy to operate. Voltage reads 0V when idle, changes to 5V when touched.

- Dimensions: 28(W) x 24(H) x 8(D)mm

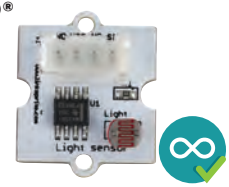


	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC4572	$13.90	$12.50	$11.10

Linker Modules CONTINUED

LINKER LIGHT SENSOR FOR ARDUINO®

The light sensor, also known as the light dependent resistor (LDR). Typically, the resistance of the light sensor will decrease when the ambient light intensity increases.



Cat.	Qty 1+	Qty 3+	Qty 6+
XC4574	$8.50	$7.60	$6.80

LINKER TEMPERATURE MODULE FOR ARDUINO®

The Linker Temperature Module uses a thermistor to detect the ambient temperature. The resistance of a thermistor will increase when the ambient temperature decreases. It's this characteristic that we use to calculate the ambient temperature.

• Dimensions: 20(L) x 20(W) x 11(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4576	$8.50	$7.60	$6.80

LINKER HALL SENSOR FOR ARDUINO®

This hall module hosts a magnetic hall sensor that senses the presence of magnetic field. If there is a magnetic field present, it will report a high level signal.

• Dimensions: 20(L) x 24(W) x 11(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4577	$19.90	$17.90	$15.90

LINKER BUZZER MODULE FOR ARDUINO®

This buzzer module will generate around the audible 2kHz range.

• Dimensions: 25(L) x 25(W) x 11(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4580	$7.30	$6.50	$5.80

LINKER MAGNETIC SWITCH MODULE FOR ARDUINO®

This is a magnetic switch module with Linker kit standard connection. It is based on encapsulated dry reed switch of single-pole, single throw (SPST) type, having normally open ruthenium contacts. The sensor is a double-ended type and may be actuated with an electromagnet, a permanent magnet or a combination of both. The magnetic switch is a wonderful tool for designers who would like to turn a circuit on and off based on proximity.

• Dimensions: 20(L) x 24(W) x 11(D)mm

Cat.	Qty 1+	Qty 3+
XC4581	$11.90	$10.70

LINKER SOUND SENSOR FOR ARDUINO®

This is a simple microphone. Based on the power amplifier LM386 and the electret microphone, it can be used to detect the sound strength of the environment. The value of output can be adjusted by a potentiometer.

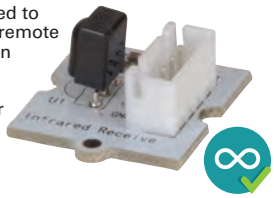
• Dimensions: 42(W) x 24(L) x 11(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
XC4582	$19.90	$17.90	$15.90

LINKER INFRARED RECEIVER MODULE FOR ARDUINO®

The Linker Infrared Receiver Module is used to receive infrared signals and also used for remote control detection. There is an IR detector on the Infrared Receiver which is used to get the infrared light emitted by the Infrared Emitter. The IR detector has a demodulator inside that looks for modulated IR at 38KHz. The Infrared Receiver can receive signals well within 10 metres.

• Dimensions: 21(W) x 25(L) x 12(D)mm

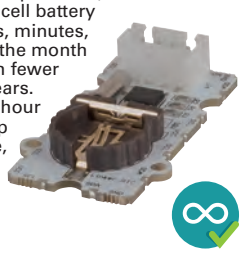


Cat.	Qty 1+	Qty 3+
XC4583	$11.90	$10.70

LINKER RTC FOR ARDUINO®

The Linker RTC module is based on the clock chip DS1307, which supports the I2C protocol. It utilises a Lithium cell battery (CR1225). The clock/calendar provides seconds, minutes, hours, day, date, month, and year. The end of the month date is automatically adjusted for months with fewer than 31 days, including corrections for leap years. The clock operates in either the 24-hour or 12-hour format with AM/PM indicator. And it is valid up to 2100. In order to gain a robust performance, you must put a 3V CR1225 lithium cell in the battery holder. If you use the primary power only, the module may not work normally, because the crystal may not oscillate.

• Dimensions: 42(L) x 24(W) x 11(D)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
XC4584	$24.90	$22.40	$19.90

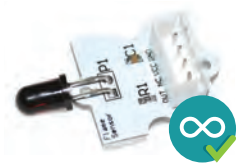
LINKER VIBRATION SENSOR MODULE FOR ARDUINO®

This vibration sensor module uses a spring based sensor. When there is vibration, it will output a digital signal. The SW18010P series spring type used is a non-directional trigger switch. Switch is open circuit OFF-state when it is static, and when external force results in a corresponding vibration, or movement speed gathers enough centrifugal force, conductive pick feet will produce instant conductivity and circuit goes to On-state.

Cat.	Qty 1+	Qty 3+
XC4587	$11.90	$10.70

LINKER FLAME SENSOR MODULE FOR ARDUINO®

Flame sensor module of Linker kit is only sensitive to the light in the frequency band of infrared and ultraviolet. This breakout board has 3 useful pins: sensor output signal, power, and ground. The sensor output signal is an analog signal. In an indoor environment, the signal output is around 0V. When there is flame or other infrared source, the voltage of output signal will increase. When the intensity of light is high, it can output as large as 3V.



Cat.	Qty 1+	Qty 3+	Qty 6+
XC4588	$13.90	$12.50	$11.10

LINKER PATH TRACKING SENSOR MODULE FOR ARDUINO®

This sensor module uses a reflective infrared sensor (tcrt500). The infrared light is emitted and reflected back to the receiver, it's then inverted by 74LS14 and output to the output pin and the LED. The output signal is a digital signal. There are 3 active pins: output signal, power supply and ground. On a white surface, the output signal will be HIGH. On a black/non-reflective surface, the output signal will be low and the LED is off. The working distance from the sensor to the surface is around 15mm.

Cat.	Qty 1+	Qty 3+
XC4590	$11.90	$10.70

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make it

JAYCAR DIY CHRISTMAS STAR

christmas projects:

JAYCAR DIY CHRISTMAS STAR

Help the three wise men find their way with this clever Christmas Star built around the 8 x 8 dot matrix display connected to an Arduino® Nano.

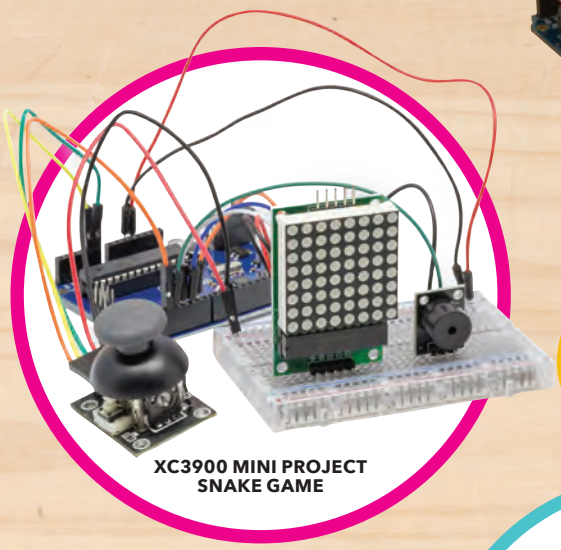
jaycar.co.nz/diy-christmas-star

DUINOTECH LED CHRISTMAS TREE

Here's a good project for a beginner, which can add a bit of Christmas spirit to your workbench, and also teach you how multiple LED's can be controlled from a handful of microcontroller pins. Being Arduino® based, the LED Christmas Tree can also be customized to your liking. There is some soldering required for this project, so make sure you have an adult's assistance when building the tree. A set of needle-nose pliers will also come in handy.

jaycar.co.nz/led-christmas-tree

DUINOTECH LED CHRISTMAS TREE


XC3900 MINI PROJECT SNAKE GAME

make it

gaming projects:

KJ7050 MINI PROJECT - SNAKE GAME

Here's the first of our mini projects that you can build from parts in the XC3900 kit. It's a take on the old 'Snake' game that you might have seen on old Nokia phones or even earlier on Atari. There's nothing difficult about this project, but we'd recommend that you've built a few of the designs from the book before attempting it.

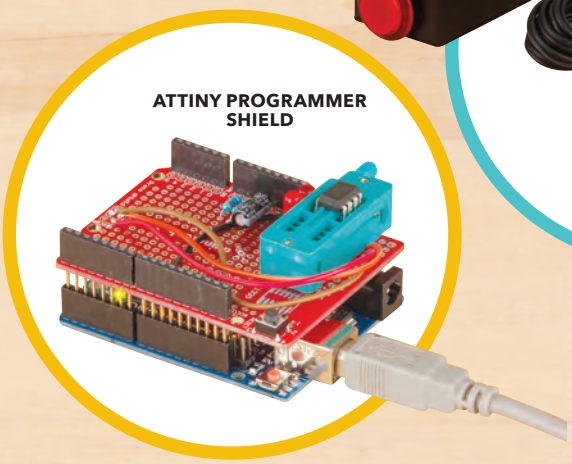
jaycar.co.nz/snake-game

GUESS THAT SONG GAME

GUESS THAT SONG GAME

Turn your living room into a real life game show and have fun playing with your family and friends! Prepare some MP3 files to play and try to score the most amount of points with an automatic game app on the Raspberry Pi.

jaycar.co.nz/guess-that-song-game


ATTINY PROGRAMMER SHIELD

ATTINY PROGRAMMER SHIELD

The best thing about at the ATtiny85 IC is undoubtedly its tiny size, but this also makes it difficult to program. No matter how gently you pull it out of its socket, it still seems like the legs get bent (pro-tip: keep the IC in a socket if you are continually moving it to and from a programmer, then the socket takes the wear and tear).

To make our job even easier, we put together an ATtiny Programmer Shield, using a ZIF socket to ensure that the pins are not subject to excessive forces, and wired directly to the SPI pins on the Arduino® so that any Arduino® main board can be used. There's no reason a similar idea can't be applied to even an ATMega328 IC (using a 28 pin ZIF socket instead). We've added some testing LEDs to the pins that aren't used for programming, so you can quickly test that the chip is working too.

Note: You'll also need some wire offcuts to make some connections.

jaycar.co.nz/attiny-programmer

DIY projects:

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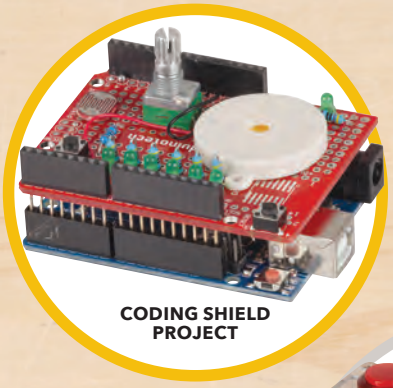
CODING SHIELD PROJECT

The Coding Shield Project is inspired by the ThinkerShield, which has been developed by the Museum of Applied Arts and Sciences as a tool for teaching coding. The ThinkerShield is even used in a unit of work for Year 7 and 8 students called 'Crack the Code'. However you might use it, the Coding Shield is a board that allows students to learn software coding without having to worry about the hardware.

Being a project, there's still some construction needed, but it's a project that an older sibling or relative can build for a younger person, or would even make a great assignment for an electrotechnology class, with the finished Coding Shields available to a coding class.

jaycar.co.nz/coding-shield

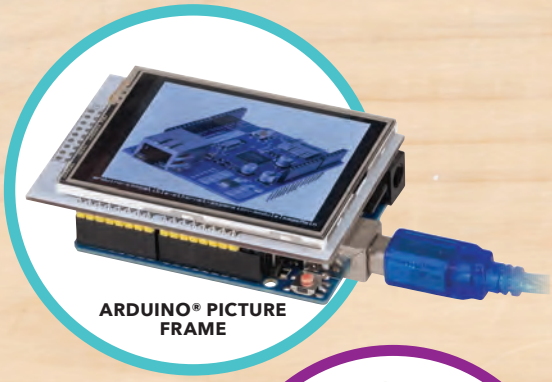


CODING SHIELD PROJECT

ARDUINO® PICTURE FRAME

There's not a lot to construct in this project- it's just an Uno and LCD Touch Shield, but if you want a simple project that looks slick, then it's a good place to start. We call it a 'Picture' frame because it only supports .BMP bitmap files. It's possible to decode .JPG's with Arduino, but we would need to use a Mega board for the memory requirements, and this approach makes the program more portable if you'd like to use the code in different applications. And it's pretty straightforward to convert your photos into .BMP files for the Arduino® Picture Frame to display.

jaycar.co.nz/picture-frame



ARDUINO® PICTURE FRAME

make it

LEONARDO ARCADE JOYSTICK

LEONARDO ARCADE JOYSTICK

Here we'll show you how to build your very own arcade style joystick using our new Arcade Pushbuttons and Arcade Joystick. We've got a Leonardo main board to emulate a USB keyboard, so it can be used with any software that you can play with a keyboard. Just like any other Arduino® design, it can of course be customised to more buttons or even mapped to different keys. We've built ours in an ABS enclosure for portability, but there's no reason you couldn't mount the controls directly to an arcade cabinet or even a coffee table.

jaycar.co.nz/arcade-joystick

YUN SHIELD DROPBOX WEBCAME

YUN SHIELD DROPBOX WEBCAM

This is a quick & simple project to build - and if you haven't worked with a Linux based system before, you're about to. The Yun Shield is effectively a small Linux based computer with WiFi, Ethernet and USB. By connecting it to an Arduino® board like the Leonardo, we can get the Leonardo to tell it to take photos and upload them to Dropbox. Of course, to do this, you'll need to set up a Dropbox account at www.dropbox.com, which is free to do, and of course, a webcam. We used our QC3203- other models might work, but have not been tested.

jaycar.co.nz/yun-dropbox-webcam

For next day delivery, or Click and Collect, see page 5

AV & comms projects

DUINOTECH METRONOME

DUINOTECH METRONOME

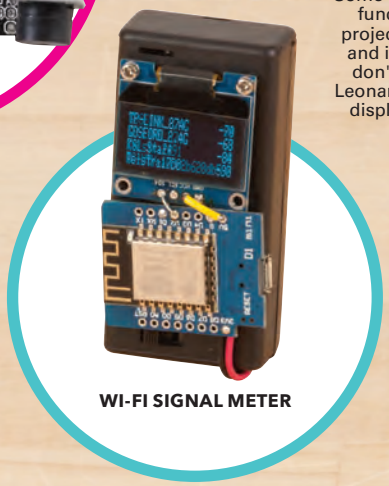
We usually think of soldering irons, pliers and oscilloscopes when we think of electronic tools, and while this project may not be useful to the electronics enthusiast, we think it's a good way of showing how Arduino® based tools can be useful in other fields- in this case for musicians. The Duinotech Metronome has adjustable tempo between 20 and 240bpm, and can be set to accent anywhere between every beat and every eighth beat. It also gives a display of the classical name for that tempo.

jaycar.co.nz/metronome

DUINOTECH FM RADIO

Some of the Arduino® compatible modules boast amazing functionality, such as the FM Radio Module used in this project. We've had the FM Radio Module for a while now, and it was only inevitable that someone would say 'Why don't you make an FM radio project?'. Here it is, using a Leonardo main board, one of our new XC4629 colour LCD displays to show status information, and a pair of tactile switches for controls.

jaycar.co.nz/duinotech-fm-radio

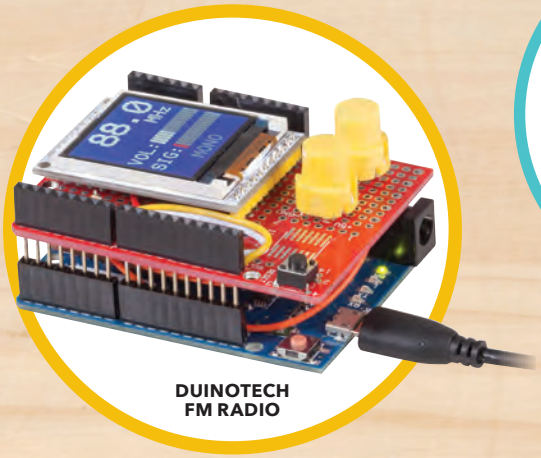


WI-FI SIGNAL METER

WI-FI SIGNAL METER

Check for any nearby Wi-Fi signals, see how well the connection in your workshop is going, or see if there's any free Wi-Fi hotspots when you're out and about. Uses the 8266 with a screen attached, and powered from just 2 x AA batteries.

jaycar.co.nz/wifi-signal-meter



DUINOTECH FM RADIO

make it

PROGRAMMABLE REMOTE CONTROL

PROGRAMMABLE REMOTE CONTROL

One of the really great things about the Arduino® community is how many extra features they have added to the IDE. In this project, we'll be using a library which has been created by one of the members of the Arduino® community, and has been added to by other members. It's a Programmable Remote Control, which is perhaps similar to a 'Learning Remote Control', except that it can give a lot more information about the codes it is sending. Check out the library documentation for the protocols that are supported. Some soldering required!

You'll also need some offcuts of wire to build the project- we used some coloured ribbon cable offcuts to help identify which wire is which.

jaycar.co.nz/prog-remote-control

ANDROID PHONE NOTIFIER

ANDROID PHONE NOTIFIER

You might be surprised to find how easy it is to control an Android phone with an Arduino. We're using a Leonardo board to emulate a keyboard, and use this to send commands to the phone. In this project, we've hooked up an Ultrasonic Sensor Module as the trigger, and then commanding the phone to send a text message with the distance measured if something is detected too close, but like any Arduino® project, you can customize it as much as you like.

jaycar.co.nz/android-phone-notifier

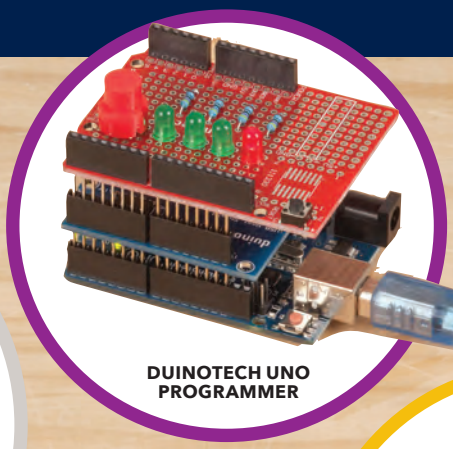
IOT WIRELESS LED SIGN

IOT WIRELESS LED SIGN

Decorate your shop window, bedroom door or loungeroom. Mount the dot matrix display somewhere in your house and connect to it through the same network. Using a custom HTTP server, you can access the sign through its network address and change it to display a clock, text, or anything else that you might want.

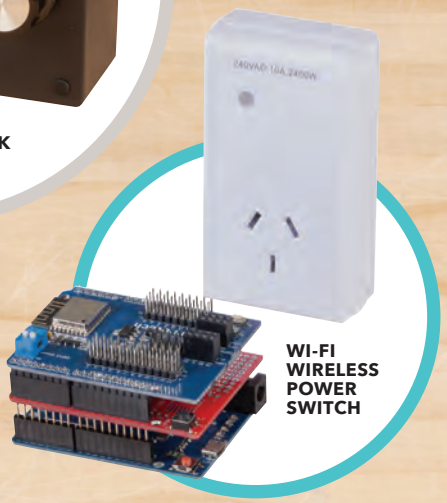
jaycar.co.nz/iot-wireless-sign

GPS WORLD CLOCK



DUINOTECH UNO PROGRAMMER

GPS SPEEDOMETER



WI-FI WIRELESS POWER SWITCH

make it

programming, Wi-Fi, LoRa projects:

GPS WORLD CLOCK

While most phones have the ability to display the local time throughout the world, you may not always have access to an internet connection. With our World Clock, all you need is a GPS signal.

jaycar.co.nz/gps-world-clock

DUINOTECH UNO PROGRAMMER

The idea of using an Uno to program an Uno sounds a bit meta, but with a USB Host Shield, we managed to program our Uno's. In fact, the programming only takes about three seconds per board, which is even faster than we could unpack them. Some soldering required.

jaycar.co.nz/uno-programmer

WI-FI EMAIL NOTIFIER

This project was inspired by one of my colleagues who wanted to be notified if his server room got too hot, but you could easily change the trigger to some other form of input, or even to simply report some data back to you at a regular rate.

The first thing you'll need to check is whether this project will work with your Wi-Fi network and email address. Most email servers are fussy about who they will accept email from, but if your email address is provided by your ISP, it will generally accept email from connections coming in through that ISP. For example, I have Virgin Mobile Broadband, and the virginbroadband.com.au email server is happy to receive emails while I'm connected to Virgin Mobile Broadband. If you aren't sure, you can even check this with a computer before buying the components.

jaycar.co.nz/wifi-notifier

GPS SPEEDOMETER

Using our Arduino-compatible GPS module and TFT Screen, to display basic GPS information such as longitude, latitude, altitude, speed, and distance travelled from point A to B. Information are stored on an SD card which can be exported and viewed via Google Maps.

jaycar.co.nz/gps-speedometer

WI-FI WIRELESS POWER SWITCH

Like many of the projects that we put together, this one came about because someone asked 'can you make an Arduino® do this?' In this case, we had a request for a combination of the RTC Power Point Timer and the Wi-Fi Environmental Datalogger. We figured it sounds handy, and since everything is better with Wi-Fi, we got it working. The Arduino® serves up a basic webpage which can be viewed on a computer or phone, and clicking links on the page triggers the Arduino® to send a signal like the remote from the wireless remote.

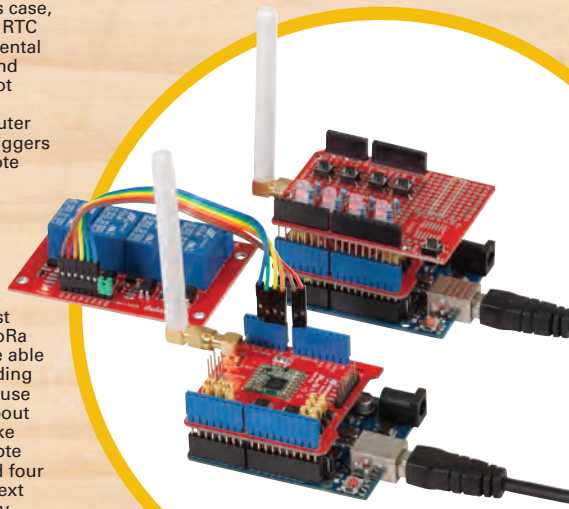
jaycar.co.nz/wi-fi-power-switch

LORA REMOTE RELAY

We are very excited to get the chance to play with our new LoRa Shields, and test just how far we could get a signal using LoRa technology. With one of our tests, we were able to get a signal to travel about 200m, including through the corrugated iron of the warehouse and the concrete office building. We set about building a practical project that would make best use of the technology. The LoRa Remote Relay is basic- four buttons at one end and four relays at the other end. It also has LED's next to the buttons, so unlike other remote relay systems, there is feedback that the relays are operating as commanded.

jaycar.co.nz/lora-remote

WI-FI EMAIL NOTIFIER



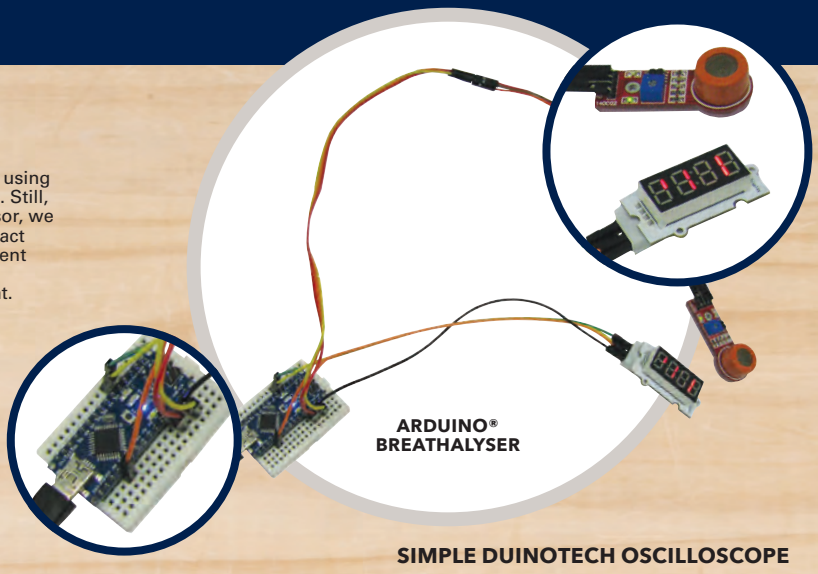
LORA REMOTE RELAY

For next day delivery, or Click and Collect, see page 5

ARDUINO® BREATHALYSER

Although we call this one a breathalyser, the sensor we're using is not considered accurate enough to give useful readings. Still, when everyone at the office heard we had an alcohol sensor, we had to have a go at building one. We've gone with a compact form factor- a Duinotech Nano and a Linker 4-digit 7-segment display. It's all just free-wired, but should fit into a small enclosure if you want to make something more permanent.

jaycar.co.nz/diy-arduino-breathalyser

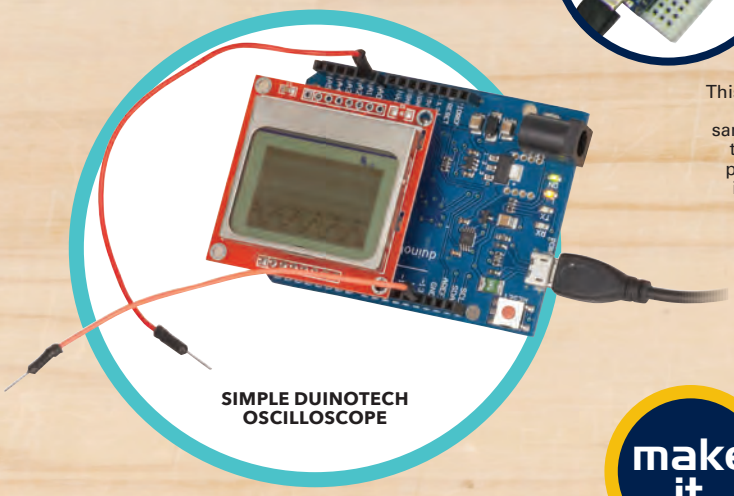


ARDUINO® BREATHALYSER

SIMPLE DUINOTECH OSCILLOSCOPE

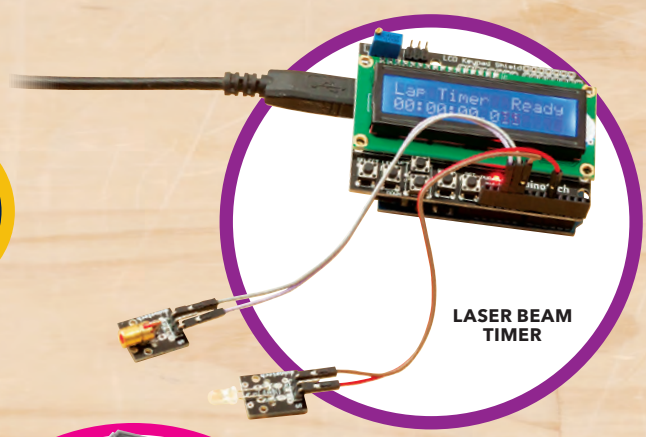
This little test tool is designed to be easily put together if you need a very basic 'scope in a hurry. There's no high end specs here- the maximum sample rate is about 700 samples per second, and it's limited to the 0-5V that the Arduino® analog pins can handle. Still, it's sensitive enough to pick up the 50Hz noise from mains wiring without making contact. Also includes a tone generator, so you can compare signal frequencies too.

jaycar.co.nz/oscilloscope



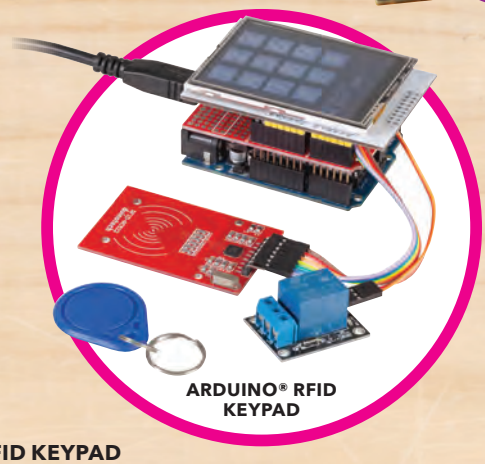
SIMPLE DUINOTECH OSCILLOSCOPE

make it



LASER BEAM TIMER

INTRUDER ALERT



ARDUINO® RFID KEYPAD

INTRUDER ALERT

The Wi-Fi Intruder Alert provides you with email notifications and reports the exact time and date when someone has entered your monitored area, such as your room. Based on the tiny ESP8266 integrated Wi-Fi and Microcontroller unit, so can be hidden away from the intruder's view.

jaycar.co.nz/intruder-alert

ARDUINO® RFID KEYPAD

Here's a security project designed with versatility in mind- it's inspired by our LA5353 RFID Keypad, but because it uses the XC4630 LCD Touchscreen, the setup of cards and users is a bit easier. As with most Arduino® security stuff, it's pretty easy to bypass if you have physical access to the main board, so we wouldn't recommend using it for protecting valuables. Still, if you want to be able to activate a relay with either a card (most smartcards like public transport cards and bank cards will work with it) or a PIN code, this project fits the bill. There is some soldering required for this project.

jaycar.co.nz/rfid-keypad

LASER BEAM TIMER

Here's a handy little project that uses a little known feature of LEDs, and also has a laser in it, which makes it even cooler. We shine a Laser Module at the LED, and the LED actually generates a voltage depending on how much light is shining on it.

We use an Arduino® to measure this voltage, and if the beam is broken, then we can record the time to use it as a precise timer. You could use it like a race lap timer (for slot cars!), or to measure the speed of falling objects. Some soldering is required.

jaycar.co.nz/laser-beam-timer

monitoring projects

TELESCOPE DEW HEATER

This project brings together a few duinotech modules and some other parts to create a versatile tool. Inspired by the Dew Heaters used on telescopes, it senses ambient temperature and humidity to control a small heater. Not just for telescopes, but anything that needs to avoid condensation.

Features include:

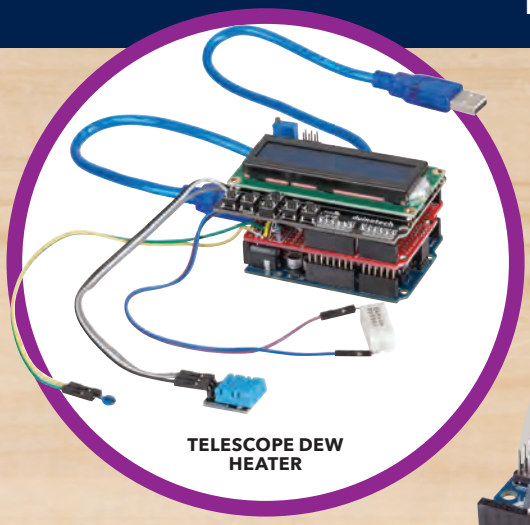
- Programmable temperature setpoint
- Temperature target can be set above ambient or dewpoint
- Settings can be saved to EEPROM
- Adjustable failsafe heater output to use if sensors are faulty
- Comprehensive LCD info screen

jaycar.co.nz/diy-telescope-dew-heater

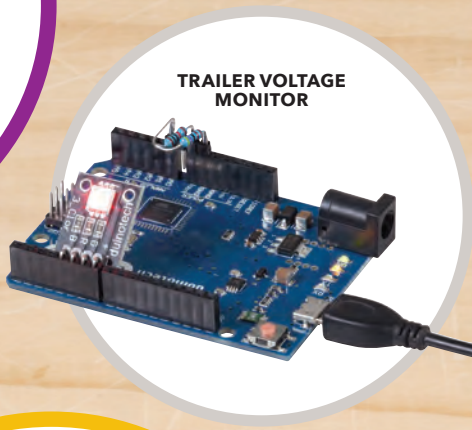
TRAILER VOLTAGE MONITOR

One of the guys at the office here asked if I could build an Arduino® device for monitoring the voltage of the 12V battery in his trailer- as now required for registration of some trailers which have electric brakes. Here's what we built- and it's a bit cheaper than some of the offerings out there.

jaycar.co.nz/trailervoltagemonitor



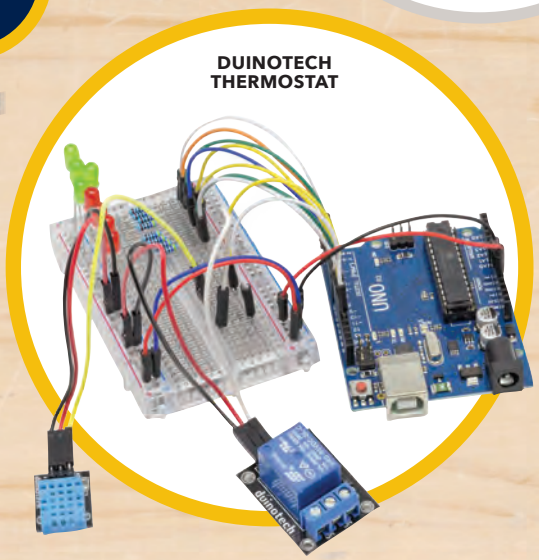
TELESCOPE DEW HEATER



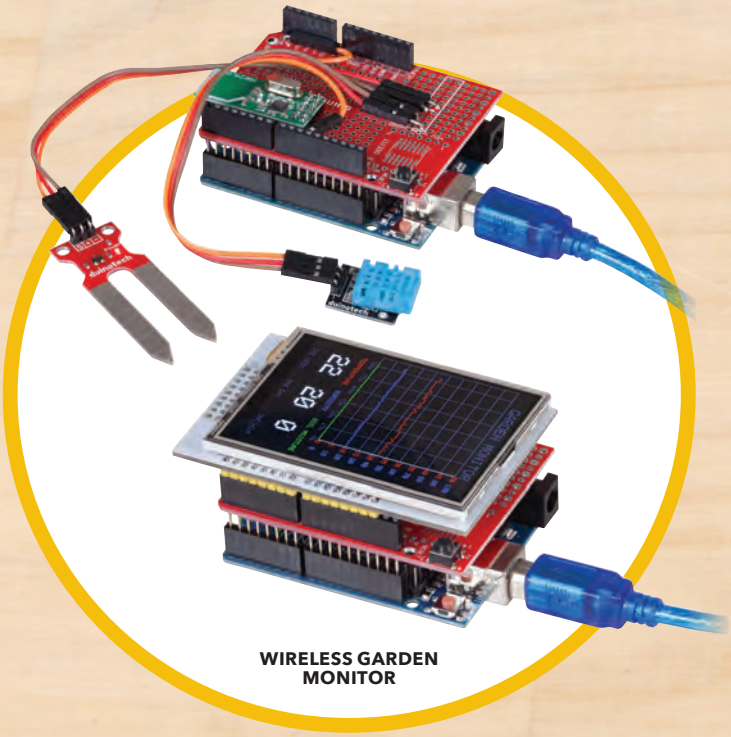
TRAILER VOLTAGE MONITOR

make it

UV METER



DUINOTECH THERMOSTAT



WIRELESS GARDEN MONITOR

UV METER

This simple yet effective project will provide a way to the UV levels in your area, which is helpful to determine what level of sun protection is needed on a particular day. Readings can be displayed on the 7 segment display and are stored on the SD card for easy tracking.

jaycar.co.nz/arduino-uv-meter

DUINOTECH THERMOSTAT

Here's a project that will take you into the world beyond the basics of the duinotech Learning Kit. We're going to build a project that shows how we can use the Learning Kit with other modules, and also how to incorporate an external library to extend our programming possibilities. It's a thermostat, which is nothing more than a relay which responds to temperature. We've added some colour to it by connecting some LED's to give an indication of the current temperature.

jaycar.co.nz/arduino-thermostat

WIRELESS GARDEN MONITOR

Here's a project that uses two Arduino® boards to communicate wirelessly- the first Arduino® reads a soil moisture sensor and a temperature and humidity sensor, and sends the data to a second Arduino® that displays the data in a graph and text. You can use it to monitor when your garden needs watering, or even as a basic weather station. Alternatively, you could use completely different sensors to create your own custom monitor.

jaycar.co.nz/wireless-garden-monitor

For next day delivery, or Click and Collect, see page 5

Bench Voltmeter

ANALOGUE BENCH VOLTMETER 0-15V

A handy bench volt meter with analogue dial and banana plug connections. Reminiscent of the volt meters you might see in a school physics lab, this volt meter gives a quick and easy to read display of volts, and is ideal as a permanent fixture on a test bench, with a 15V maximum reading be suitable for automotive part testing.

- Choose either 3V and 15V scales via separate banana plugs
- 3V scale reads -1V to 3V
- 15V scale reads -5V to 15V
- Zero offset adjust
- Analogue movement
- Internal resistance: 3kΩ (3V scale), 12kΩ (15V scale)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP5040	$22.90	$20.90	$17.90

Jan Kadlec likes to

think. possible.

"I am very excited about the recent development of surface supplied dive equipment (SSBA) that eliminates the need for air tanks typically used in SCUBA diving. The technology has a great potential to grow with ever-evolving battery technology to provide greater dive time and depth."

$500 Gift Card Winner

addicted to social?

We're here to chat!

facebook.com/jaycarelectronics

instagram.com/jaycar_electronics

twitter.com/jaycarnz

youtube.com/user/JaycarVideo

Paul Logan likes to

think. possible.

"My rechargeable battery box allows me to run my fridge, led lights and even equipment via inverter when I am camping off-grid but the thing is ridiculously heavy. I think lithium and newer battery technologies along with more efficient solar panels will permit even more off-grid ability and portability"

Books

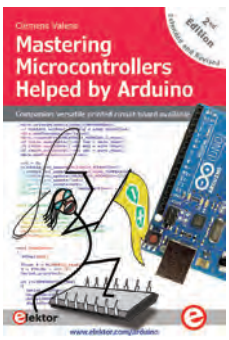
C PROGRAMMING FOR ARDUINO® BOOK

Technology is constantly changing. New microcontrollers become available every year. The one thing that has stayed the same is the C programming language used to program these microcontrollers. If you would like to learn this standard language to program microcontrollers, then this book is for you!

	Cat.	Qty 1+
C Programming for Arduino® Book	BT1388	$79.90

MASTERING MICROCONTROLLERS HELPED BY ARDUINO®

The aim of this book is not only to let you enter the World of Arduino®, but also to help you emerge victorious and continue your microcontroller programming learning experience by yourself. In this book theory is put into practice on an Arduino® board using the Arduino® programming environment. Having completed this fun and playful course, you will be able to program any microcontroller, tackling and mastering I/O, memory, interrupts, communication (serial, I²C, SPI, 1-wire, SMBus), A/D converter, and more. All programs presented can be downloaded for free from www.elektor.com/mastering-microcontrollers.



For this second edition, the author has designed a versatile printed circuit board that can be stacked on an Arduino® board. The assembly can be used not only to try out many of the projects presented in this book but also allows for new exercises that in turn provide the opportunity to discover new techniques.

This book is for you if you are:

- A microcontroller novice
- An Arduino® user (enthusiast, artist, etc.) wishing to deepen your knowledge
- An electronics graduate or undergraduate student
- A teacher looking for inspiration
- Soft cover, 380 pages. 209(L) x 139(W)mm

	Cat.	Qty 1+
	BM7144	$99.90

ELEKTOR PYTHON 3 PROGRAMMING AND GUIS 2ND EDITION

NEW

This is the second edition of a book aimed at engineers, scientists and hobbyists who want to interface PCs with hardware projects using graphical user interfaces. Desktop and web based applications are covered. The programming language used is Python 3 which is one of the most popular languages around: speed of programming being a key feature. The book has been revised and updated with emphasis on getting the user to produce practical designs with ease - a text editor is all that is required to produce Python programs. Hardware interfacing is achieved using an Arduino® Uno as a remote slave. A full description and source code of the communication interface is given in the book. The slave provides digital and analogue input and outputs. Multiple Unos can be included in one project with all control code written in Python and running on a PCOne project involves a PIC microcontroller with code provided that can be loaded into the PIC using the Uno. The web applications and server are all implemented in Python allowing you to access your electronic hardware over the Internet. The Raspberry Pi computer can be used as your web server. An introductory chapter is provided to get you started with using Linux. The book is written for use with Debian or variations including Mint or Ubuntu. All of the programs in the book are freely available, ready to use and experiment with by way of a download from Elektor.

- Soft cover
- 222 pages
- 235(L) x 170(W)mm

	Cat.	Qty 1+
	BT1381	$69.90

Books CONTINUED

PROGRAMMING ARDUINO®: GETTING STARTED WITH SKETCHES

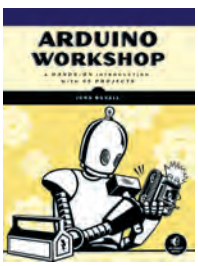
This entry level book explains what an Arduino® microcontroller actually is (i.e. a very small stand alone computer), introduces you to the Arduino® programming language (called, "C") and then describes the basic configurations of Arduino® modules. It then goes into the detail of getting Arduino®'s to deal with the real world, finishing with a discussion on C++ and more sophisticated applications.

- Soft cover, 162 pages, 138 x 215mm

Cat.	Qty 1+
BM7133	$29.90

ARDUINO® WORKSHOP BOOK - 65 PROJECTS

In Arduino® Workshop you will learn to make projects that add-on to your Arduino® microcontroller platform. The book is very hands-on, describing 65 projects you can make. Lavishly illustrated with very clear text and lots of professional tips for the novice constructor.



Projects include:

- A digital thermometer
- A GPS logger
- A handy voltage tester
- A keypad combination lock
- A binary quiz game and much, much more
- Soft cover, 370 pages, 180 x 235

Cat.	Qty 1+
BM7137	$54.90

PROGRAMMING ANDROID APPS

The book explains the operation of the Android® OS in a clear step-by-step method. The book offers a wide range of applications based on hands-on examples, covering everything from simple math programs, reading sensors and GPS data, right up to programming for advanced Internet applications. Besides writing applications in the Java programming language, this book also explains how apps can be programmed using Javascript and PHP.

- Soft cover
- 244 pages, 234 x 169 x 14mm

Cat.	Qty 1+
BT1382	$79.90

ARDUINO® + ANDROID PROJECTS FOR THE EVIL GENIUS

Not particularly evil, but another project oriented book written around Android-type mobile phones and the Arduino® microcontroller. You can, for example turn your Android phone into a Geiger counter, a TV remote controller, etc. Many projects use both the Arduino® and the Android culminating in the creation of a home Automation system.

- Soft cover, 197 pages, 215 x 275mm

Cat.	Qty 1+
BM7135	$54.90

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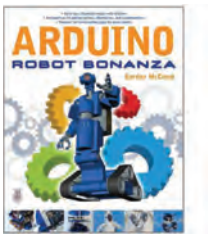
ARDUINO® ROBOT BUILDER'S BONANZA

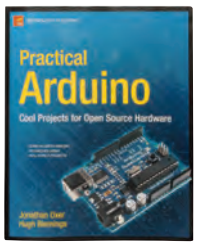


This book guides you through the construction of 7 robots that roll, walk, talk, slither and even sling insults at you. All projects feature the Arduino® microcontroller platform. Step-by-step assembly diagrams and instructions provided.

- Soft cover
- 400 pages, 230 x 185mm

Cat.	Qty 1+
BM7136	$59.90

PRACTICAL ARDUINO®



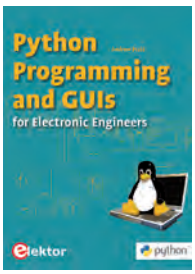
An indepth book that takes you beyond the basics quite quickly and shows you how to make up a typical application/design. Examples of typical projects, 14 in all are worked through, ranging from simple to quite complex. This is a necessity as it goes to the heart of Arduino®.

- Soft cover, 422 pages
- 235 x 190mm

Cat.	Qty 1+
BM7132	$69.90

PYTHON PROGRAMMING AND GUIS

This book is aimed at engineers, scientists and hobbyists who want to interface PCs with hardware projects using Python code graphic user interfaces. The book covers both desktop and web based applications. It guides you through starting with Linux® by way of a free downloadable, live bootable distribution that can be ported around different computers without requiring hard drive installation. Practical demonstration circuits and downloadable, full software examples are provided that can be the basis for further projects. It also shows you how you can customize your own live Linux® bootable CD to include your own projects.



- Soft cover
- 224 pages. 235 x 170 x 14mm

Cat.	Qty 1+
BT1380	$74.90

ARDUINO® CIRCUIT & PROJECTS GUIDE

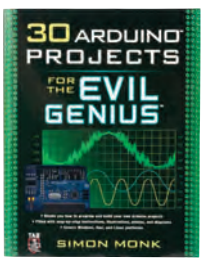
From basic to more elaborate projects are covered, so that even students and teachers with some pre-existing technical knowledge will encounter new challenges. The skill and experience level required for these projects ranges from absolute beginner, to hobbyist-expert. Beginners will benefit from progressing through the book as they build their skills, while experienced readers will find it a useful handbook.

- Programming essentials
- Simple entry level projects
- Interface and hardware extensions
- Complex applications for advanced users
- Soft cover
- 260 pages. 235 x 170 x 15mm

Cat.	Qty 1+
BM7142	$89.90

30 ARDUINO® PROJECT FOR THE EVIL GENIUS

This is a practical project oriented book describing lots of projects based around the Arduino® microcontroller. Be warned, there is nothing intrinsically evil about this book. The title is a catchy marketing department trick. It does have, however, 30 practical projects which specify components which are mostly available from Jaycar. Hours & hours of evil fun.



- Soft cover, 191 pages.
- 220 x 275mm

Cat.	Qty 1+
BM7134	$54.90

For next day delivery, or Click and Collect, see page 5

Prototyping Breadboards & Jumper Leads

MINI BREADBOARD WITH 170 TIE POINTS

With self-adhesive tape on the back, it is ideal for DIY projects including Arduino®. It has 17 holes x 10. Total 170 holes. It can also be permanently mounted with screws (not included).

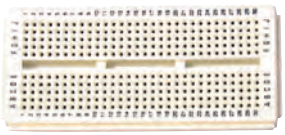
- Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 46(L) x 35(W) x 9(H)mm
- Weight: 14g

	Cat.	Qty 1+	Qty 5+
	PB8817	$6.90	$6.20

MINI BREADBOARD

One terminal strip supplied which gives 30 holes x 10. Total 300 holes.

- Dimensions: 39(W) x 87(L)mm

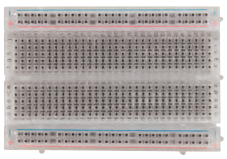


	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB8832	$15.90	$14.30	$12.70

BREADBOARD WITH 400 TIE POINTS

Mid-sized prototyping breadboard with 400 tie points.

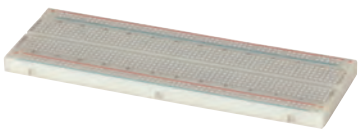
- 300 tie points in centre section
- 100 tie points on power rails
- Dimensions: 83(L) x 55(W) x 10(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	PB8820	$9.50	$8.55	$7.60

BREADBOARD WITH 830 TIE POINTS

With labelled rows and columns and adhesive back for mounting, it is ideal for electronic prototyping and Arduino® projects.



- Tie points: 830
- Distribution holes: 200
- Terminal holes: 630
- Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 165(L) x 54(W) x 9(H)mm, 74g

	Cat.	Qty 1+	Qty 5+
	PB8815	$19.90	$17.90

BREADBOARD - LARGE SCALE

- 1660 tie points
- 400 distribution holes / 1280 terminal holes
- Mounted on a metal plate
- 3 banana terminals
- Rubber feet
- Dimensions: 157(W) x 237(H)mm
- Board size: 130(W) x 175(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB8816	$54.90	$49.40	$43.90

ACRYLIC BASE FOR UNO AND BREADBOARD

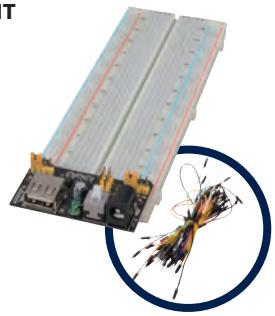
This compact acrylic board allows mounting an Uno (or Leonardo) and PB8820 sized breadboard to create an easy to use prototyping station.

- Measures 120mm x 83mm
- Self-adhesive rubber feet
- Plastic mounting screws for Arduino® board

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB8840	$14.90	$13.90	$11.90

SOLDERLESS BREADBOARD WITH POWER SUPPLY & JUMPER LEAD KIT

This kit comprises of a solderless breadboard with 830 connection tie-points, a power supply module and 64 pieces of mixed jumper leads. Ideal for circuit board prototyping and Arduino® projects. The power module can be plugged into the power rails and can be powered from either a 12V plug pack or from 5V using the USB socket, and has a switchable output between 3V and 5VDC.

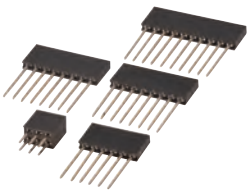


- 1 x Solderless Breadboard with 830 Points
- 1 x Power Supply Module
- 64 mixed jumper wires of different lengths and colours

	Cat.	Qty 1+	Qty 5+
	PB8819	$24.90	$22.40

STACKABLE HEADER

Build a stackable shield, or make your current shield stackable with the Duinotech Stackable Headers. Alternatively, shorten the pins to make female headers just like the duinotech main boards.



Includes:

- 1 x 10-pin
- 2 x 8-pin
- 1 x 6-pin
- 1 x 2x3-pin (for ICSP)

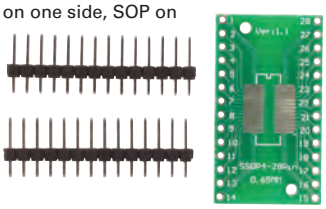
duinotech

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM3208	$5.50	$4.90	$4.40

28 PIN SOIC/SOP TO DIP BREADBOARD ADAPTOR

More and more IC's are now only available as surface mount variants, making prototyping harder. The SMD breadboard adaptor allows SMD IC's and other smaller pitch components to be used with standard 0.1" prototyping equipment such as breadboard and protoboards.

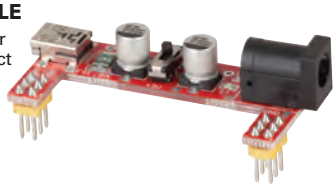
- Suits 4-28 pin SOP/SOIC IC's (SOIC on one side, SOP on the other)
- 1.27mm pitch and 0.65mm pitch
- Header strip included



	Cat.	Qty 1+	Qty 10+	Qty 25+
28 pin SOIC/SOP to DIP Adaptor	PI6530	$3.30	$2.90	$2.60

BREADBOARD POWER MODULE

Receiving power from a USB socket or DC socket, this module adds a compact power supply to your breadboard.



- Plugs straight into most bread boards
- Can be set to 3.3V or 5V
- Concave design saves space
- Dimensions: 57 x 24 x 21mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC4606	$11.90	$10.70	$9.50

BREADBOARD JUMPER KIT

This kit consists of 70 pcs of single core sturdy wire which has been stripped on each end and bent at right angles.

- Specifically made for breadboards
- There are 5 pcs each of 14 different lengths

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB8850	$16.90	$15.20	$13.50

ECONOMY BREADBOARD JUMPER KIT

Solid core hookup cable, which is the ideal size for breadboards. Cut it to whatever lengths you require and strip the ends.

- 2 metres each of 5 colours (Colours may vary from time to time.)

	Cat.	Qty 1+	Qty 4+	Qty 10+
Per Pack	WH3032	$5.60	$5.00	$4.50

Prototyping Breadboards & Jumper Leads

150MM JUMPER LEADS

A pack of 40 jumper leads of various colours for prototyping. Ideal for Arduino® and DIY projects. Each flexible lead is 150mm long with pins to suit breadboards or PCB headers.

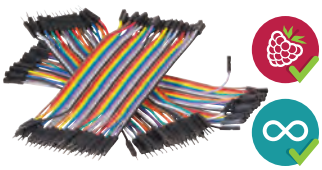
- Pack of 40

	Cat.	Qty 1+	Qty 5+
Plug to Plug	WC6024	$7.30	$6.50
Socket to Socket	WC6026	$7.30	$6.50
Plug to Socket	WC6028	$7.30	$6.50

JUMPER LEAD MIXED PACK

A mixed pack of jumper leads for your Arduino®, breadboarding and prototyping projects.

- 30 Plug-Plug
- 40 Plug-Socket
- 30 Socket-Socket
- All 150mm long



	Cat.	Qty 1+	Qty 5+
100 Pieces	WC6027	$16.90	$14.90

20CM PIN TO ALLIGATOR CLIP JUMPER LEAD SET

NEW

These jumper cables with alligator clips are perfect for prototyping components where a breadboard isn't suitable. Alligator clips are insulated with rubber covers to avoid shorting when testing components with multiple clips.

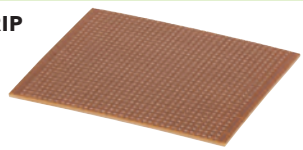
	Cat.	Qty 1+	Qty 4+	Qty 10+
10 Pieces	WC6032	$10.90	$9.90	$8.90

PCB Experimenting & Prototyping

PC BOARDS - VERO TYPE STRIP

Alphanumeric grid, pre-drilled 0.9mm, 2.5mm spacing.

- Dimensions: 95mm wide x 3 handy lengths



	Cat.	Qty 1+	Qty 4+	Qty 10+
75mm	HP9540	$5.90	$5.30	$4.80
152mm	HP9542	$9.90	$8.50	$7.50
305mm	HP9544	$13.90	$12.30	$10.90

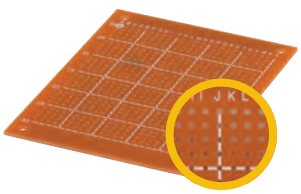
UNIVERSAL PRE-PUNCHED EXPERIMENTER'S BOARDS

The low cost way to build prototype or one-off projects. We now stock 3 sizes of phenolic board that has a matrix of punched holes on 0.1" (2.5mm) pitch with 'donut' of tin plated copper around each hole. Finally the non-solder side of the board has an alphanumeric grid printed on it to assist in the component identification board layout.

SMALL - HP9550
- 95 x 72mm, 25 x 30 holes (750)
- 3.6mm edge pitch.

MEDIUM - HP9552
- 140 x 95mm, 29 x 50 holes (1450)
- 2.5mm edge pitch.

LARGE - HP9554
- 210 x 78mm, 24 x 67 holes (1608)
- 3.6mm edge pitch.



	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	HP9550	$5.90	$5.30	$4.80
Medium	HP9552	$8.90	$7.90	$6.90
Large	HP9554	$10.90	$9.50	$8.50

UNCLAD PUNCHED LAMINATE

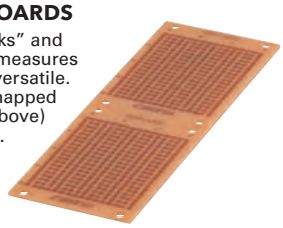
A single 150(L) x 70(W)mm strip of phenolic punched at 0.1" (2.5mm) grid with NO laminate (copper) on either side.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP9562	$6.90	$5.70	$5.20

ULTRA MINI EXPERIMENTER'S BOARDS

20 holes deep by 16 holes wide with "links" and "strips" (bus rails) every 2 holes. Board measures a compact 65 x 45mm and is extremely versatile. Supplied as a pair, end-to-end. Can be snapped apart to make two boards (dimensions above) or one 130 x 45mm 0.3" wide x 0.1" pitch.

- Ideal for DIL ICs in small numbers



	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP9556	$5.90	$5.20	$4.70

IC EXPERIMENTER'S BOARD

You can fit dozens of DIL ICs on this board. 30 holes deep x 50 holes wide, with a "link"/"strip" (bus rails) pattern enabling alternate V+ and earth rails. Very versatile.

- Alphanumeric markings on grid pattern
- Dimensions: 140 x 95mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP9558	$8.90	$7.90	$6.90

SPOT FACE CUTTER FOR STRIP BOARDS

The spot face cutter is designed to neatly remove copper strip on strip type prototyping boards. Insert the tool in the pre-drilled hole and rotate it until the track is removed entirely. Easy to use and much more efficient than other methods.

- Dimensions:
  Handle: 60(L) x 17(W) x 17(D)mm
  Total Length: 110mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2461	$11.90	$10.90	$9.50

BREADBOARD LAYOUT PROTOTYPING BOARDS

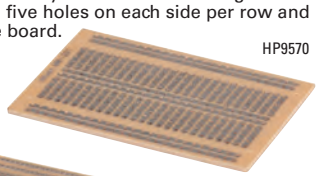
A prototyping board that lets you transfer your breadboard design without having to rework it. Includes five holes on each side per row and power rails running the length of the board.

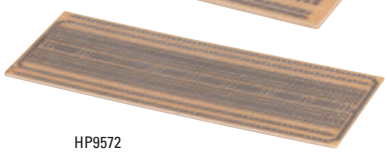
Two sizes to choose from.

SMALL:
- 25 rows
- 400 holes
- Similar layout to PB8820
- 73mm x 47mm x 1.4mm

LARGE:
- 59 rows
- 862 holes
- Similar layout to PB8815 Breadboard
- 155mm x 58mm x 1.4mm

HP9570



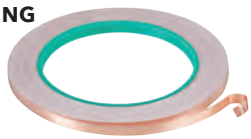


HP9572

	Cat.	Qty 1+	Qty 4+	Qty 10+
400 hole	HP9570	$5.60	$5.00	$4.45
862 hole	HP9572	$10.90	$9.90	$8.90

COPPER TAPE WITH ADHESIVE BACKING

- Solderable
- Repair printed circuit boards
- Create antennas and shielding
- 5mm x 25m



	Cat.	Qty 1+	Qty 4+	Qty 10+
25m	NM2870	$7.90	$7.10	$6.30

PRESSBOARD INSULATION MATERIAL

Similar to Presspahn Elephantide®, this product is a heavily pressed craft-type board which is used as an insulator in mains products. It can be scored, folded and formed into many shapes, particularly into boxes or partitions to isolate mains circuits from fingers. It has good abrasion resistance and is often used in areas where chafing from vibration can occur.

- Thermal Rating: 150°C
- Dielectric Strength: 12kV/mm
- Sheet thickness: 0.8mm
- Sheet dimensions: 225(H) x 208(W)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG9985	$5.90	$5.30	$4.70

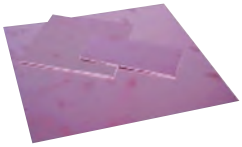
For next day delivery, or Click and Collect, see page 5

PCB Making

BLANK FIBREGLASS PCB

Pure copper bonded to quality fibreglass base.

- HP9514, 9512, 9510 are single sided
- HP9515 is double sided



	Cat.	Qty 1+	Qty 4+	Qty 10+
150x75	HP9514	$7.90	$7.20	$6.50
150x150	HP9512	$10.90	$9.50	$8.50
150x150	HP9515	$11.90	$10.70	$9.50
300x300	HP9510	$24.90	$22.40	$19.90

ETCH RESISTANT & WATERPROOF PEN

The ink from the pen is etch-resistant so you have a quick and simple way of making a PCB! Being waterproof it is also great for labeling things on or about the boat, caravan or motor home. The ink will wash off afterwards with metho, turps, etc.

- Excellent smudge-proof and waterproof qualities
- Dries in seconds
- Low-odour ink
- Xylene and toluene-free ink
- Line width fine approx. 0.6mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Blue	TM3002	$6.90	$6.20	$5.50

PCB ETCHING KIT

An ideal kit for anyone needing to etch a circuit board - complete with an assortment of copper boards, etchant, working bath and tweezers. It also includes a positive acting photosensitive PCB and developer.

Supplied with:

1 x Plastic bath to accept PCBs up to 180 x 110mm
1 x Photosensitive single sided PCB
1 x Sachet of positive developer for Riston
1 x 100g sachet of sodium persulphate etchant
1 x Plastic tweezers Assortment of PCB's, instructions

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG9990	$33.90	$29.90	$26.90

Prototyping Accessories

POLYMORPH PELLETS

Polymorph will change the way you make parts. It's a commercial grade thermoplastic that softens enough to be formed into any shape at around 62 - 65° C. You simply heat the pellets in hot water. It hardens at room temperature to form a tough plastic material similar in consistency and colour to nylon. It can be drilled, sanded, ground, machined, painted or heated and reformed again and again. Endless uses in model making, craft, single part manufacture, prototyping, engineering, science, lab and more.

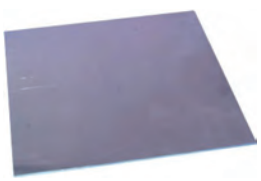
- Supplied in a 100g bag of 3mm pellets.

This car was moulded in minutes using a car baking tin!

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NP4260	$13.90	$12.30	$10.90

ALUMINIUM SHEET

18 gauge.



	Cat.	Qty 1+	Qty 4+	Qty 10+
295 x 295mm	HM9500	$16.90	$14.90	$13.30

p.210 - metal bending pliers

AMMONIUM PERSULPHATE 250G

The alternative to Ferric Chloride. Mix one part etchant with 5 parts hot water to etch copper board. Contents will etch about 300sq/cm.

- 250 grams

	Cat.	Qty 1+	Qty 4+	Qty 10+
Ammonium Persulphate 250g	NC4258	$13.90	$12.90	$10.90

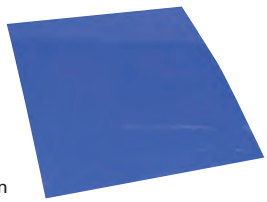
PCB WASH DEFLUXING SOLUTION

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts degreasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water- based (Biodegradable)

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre Bottle	NA1070	$18.90	$16.90	$14.90

PRESS 'N' PEEL FILM



This is by far the easiest way to make Printed Circuit Boards from CAD software or magazine PCB layout artwork. You simply make the PCB image by putting a Press 'n' Peel sheet of transfer film in the paper tray of a photocopier or laser printer (The sheet size is almost the same as the A4 paper tray). You then print or copy the PCB track image onto the film. Using a domestic clothes iron you press the image onto a precleaned piece of copper clad PCB. The image transfers to the copper and the image will not etch away. Ammonium persulphate or ferric chloride are both OK. You get 5 sheets of 215 x 280mm transfer film in each pack. Full instructions are supplied.

4 Easy Steps:

1. Print or Copy
2. Iron on
3. Peel off
4. Etch

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG9980	$42.00	$37.90	$33.40

ETCH YOUR OWN PC BOARDS BOOKLET

Need just one or two printed circuit boards, for a magazine project or a prototype for your latest design? It's not too hard to etch your own single sided or even double sided boards, especially if you have access to a photocopier or a PC and laser printer. In this tech update we tell you all you need to know.

	Cat.	Qty 1+
	BI8212	$2.00

PERSPEX - RED

- 3mm thick
- Supplied with peel-off film

		Cat.	Qty 1+	Qty 4+	Qty 10+
Red	195 x 195mm	HM9505	$16.90	$14.90	$13.30

CLEAR ACRYLIC SHEET

General purpose clear acrylic (Perspex) sheet for hobby use. Suitable for displays etc.

- Supplied with peel-off protection film

	Cat.	Qty 1+	Qty 4+	Qty 10+
195 x 195 x 3mm	HM9509	$16.90	$14.90	$13.30

Conductive Compounds

WIRE GLUE

A soldering iron in a jar. Wire Glue is a electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or can't apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.

	Cat.	Qty 1+	Qty 4+	Qty 10+
9ml	NM2831	$11.90	$10.70	$9.50

CONDUCTIVE CARBON GREASE

Lubricates and improves electrical and thermal connections between sliding surfaces, while providing protection from moisture & corrosion. Excellent for use on switches and EMI shielding applications. Industrial, trade and hobby use. 50 gram tube.

- Prevents normally closed switches from corroding in place
- Reduces make-break arcing and pitting of switch contact surfaces
- Improves the connection between irregular or pitted contact surfaces
- Reduces EMI noise by maintaining a continuous path between conductive surfaces
- Thermally stable up to 200°C
- Density: 2.7 g/ml
- Electrical resistivity: 117 ohms/cm

p.121 for heatsink compound

	Cat.	Qty 1+	Qty 4+	Qty 10+
50g	NA1034	$11.90	$10.70	$9.50

STAINLESS STEEL CONDUCTIVE THREAD 2M

A highly flexible thread made conductive by the inclusion of stainless steel strands. You can feel the extra weight that the stainless steel gives. The thread is a dark silvery grey, and is great for adding electrical elements to textiles such as fabric.

- Maximum current 500mA
- Tie onto modules and components to make a connection
- 2m length per pack

	Cat.	Qty 1+
Conductive Thread 2m	WW4100	$7.90

PRECISION CONDUCTIVE INK

This is a highly conductive polymer for use in a variety of applications and is an indispensable tool for fixing damaged circuit board tracks. Apply instant traces on most surfaces (epoxy, glass, plastic, metal). Draw traces on circuit boards, repair defective traces, make jumpers and shield electronics, design prototype circuits and repair rear-window heater traces.

- 1mm track trace width
- 0.02 Ohm per mm resistivity

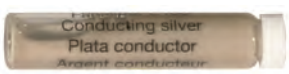
After heat curing only. Use low temperature soldering (less than 180˚C/350˚F) for not more than 5 seconds. Use low temperature soldering iron.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NS3033	$48.90	$44.00	$39.10

SILVER CONDUCTIVE VARNISH

This silver conductive varnish adheres well to glass, PCB material, ceramics etc. Repairs printed circuits, window antennas, window alarm loops etc. Very good conducting properties.

- Approximately 0.02 - 0.1 Ohms/cm2



	Cat.	Qty 1+	Qty 4+	Qty 10+
	NS3030	$17.90	$15.90	$14.30

Soldering Tools

Jaycar has the biggest range of soldering tools around.
Types range from USB powered, low voltage, 240 powered and gas.
We also have a large range of solder and accessories.
See page 195 onwards to see the great range.

Cleaning Products

ISOPROPYL ALCOHOL CLEANING PADS

Removes contaminants from metal, plastic & painted surfaces.

- Also ideal for cleaning computers
- Packet of 10

MADE IN

	Cat.	Qty 1+	Qty 4+	Qty 10+
Pkt 10	NA1060	$5.90	$5.20	$4.70

INOX PREMIUM GRADE MACHINERY GREASE

General-purpose synthetic grease in a handy 30gm tube size. Ideal for bearings, ball joints, chains, sprockets, O-rings, bushes & other rubber and plastic etc.

- Food grade
- High temperature, non-melt
- Highly resistant to water, salt, chemicals and drying
- Fully synthetic

	Cat.	Qty 1+	Qty 4+	Qty 10+
30g	NA1032	$11.90	$10.70	$9.50

DEOXIT PROGOLD CONTACT CLEANER & REJUVENATOR

Simple cleaners wash away dirt, grime, and dust from your expensive equipment but are often ineffective at cleaning tough oxidation and metal sulphide contamination. This product will not only clean, but it will help restore your equipment to its original condition, improving its performance.

Kit contains:

- DeoxIT power booster 7.4ml
- DeoxIT ProGold conditioning treatment 7.4ml
- 2 x brush applicators
- 4 x swabs
- Lint free cloth

	Cat.	Qty 1+	Qty 4+	Qty 10+
Kit	NS1436	$36.90	$33.20	$29.50

Anti-Corrosion

TEF-GEL ANTI-CORROSION, ANTI-SIEZING, ANTI-GALLING SYRINGE

This product is far superior to a similar product we sold last year. Its main use is to prevent dissimilar metals when fastened together from corroding due to galvanic action. For example, you fasten down a stainless steel sail track slide to the metal deck of a yacht; you use this product to prevent dissimilar metal electrolytic corrosion. That's all the other product was good for. This product also stops rotating objects from seizing and prevents galling in stainless steel screw fasteners. It also protects electrical terminals/connectors.

- Will not cold flow or dry out
- Is resistant to salt water and detergents
- Has an indefinite shelf life
- Contains PTFE (Teflon®) and NO (0%) volatile solvents, no silicone, or petroleum solvents. Nothing to evaporate
- It is dielectric (Non-electrical conducting)
- No known hazardous ingredients
- High flashpoint
- Non toxic

	Cat.	Qty 1+	Qty 4+	Qty 10+
10ml	NA1040	$29.90	$26.90	$23.90

CORROSION BUSTER PEN

This pen-type product enables you to remove rust, spot corrosion and clean burnt contacts etc, without abrasion utilising the 20,000 tiny glass fibres at the tip of the pen. It has an amply sized body with finger indent to provide a comfortable & secure grip while the adjustable length allows for more aggressive cleaning when required.

- 120mm long x 14mm dia

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA1410	$29.90	$26.90	$23.90

Motors & Gearboxes

LOW COST MOTOR / GEARBOX SET

This unit comes complete with a 3V 12,000 rpm motor*. It can be stepped down (with the consequent torque multiplication) up to six times as shown below. The motor is fitted with a 12 tooth pinion and the small gear cluster is 12 tooth. The large clusters are all 48 tooth. Not all gears need to be used. The intermediate output shafts are hardened steel, 3mm dia. Also supplied are press fit pulleys. The whole assembly snaps together. Hand tools are almost unnecessary.

**Motor can also be varied by changing input voltage but this lowers torque.*

- Motor cage - 40(H) x 25(W) x 28(D)mm
- Gearbox cluster - 40(W) x 25(D) x 30(H)mm
- Main & intermediate shafts - 63 x 3mm Dia. Supplied in kit form

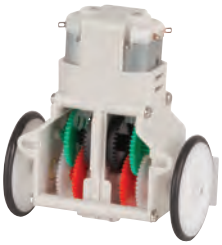
SPECIFICATIONS	RPM
12,000 x 12/48	3,000
3,000 x 12/48	750
750 x 12/48	187.5
187.5 x 12/48	46.875
46.875 x 12/48	11.72
11.72 x 12/48	2.93

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG2730	$15.90	$14.30	$12.70

DUAL MOTOR GEARBOX KIT

Twin motor gearbox kit is great for simple robot and tank projects. Independent motors for skid-steer controls.

- Rubber tired wheel and crank arm options
- Mountings for horizontal and vertical use
- Three gear ratios included, can be changed by building with different gears from kit
- 1:60, 200RPM
- 1:120, 100RPM
- 1:288, 42RPM



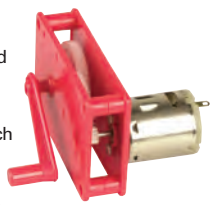
	Cat.	Qty 1+	Qty 3+	Qty 6+
Dual Motor Gearbox Kit	KJ9029	$22.90	$20.90	$17.90

tech talk Gearbox Speeds

Note: All DC motors and motor gearboxes can change speed to a considerable amount by changing voltage within specified limits. This reduces need for special gear ratios for your application.

HAND CRANK DYNAMO WITH GEARED MOTOR

Here's a great gadget that will allow you to add Green power to any of your projects. What we have here is a hand crank dynamo, pre-assembled but easily modified to be retro-fitted to existing equipment or added to new projects. Crank the handle and the specially designed gear set will operate the motor and produce a DC voltage which can be used for a variety of low current uses (charging batteries, lights etc.). Crank slowly and the voltage is low, crank harder and the voltage is higher. Made from plastic - easy to re-work to fit your projects.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	MD7000	$24.90	$22.40	$19.90

Stepper Motors

12VDC 48 STEP / 7.5° STEPPER MOTOR

Standard 48 step / 7.5° design, with flange mount 3.0mm hardened steel shaft. Suitable for object control, numerical control etc.

SPECIFICATIONS	YM2754
Rated Voltage	12VDC
Rated Current	1.1A/phase
Phases	4
Steps Per Revolution	48
Stepping Angle	7.5°
Drive Method	Unipolar chopper drive
Resistance Per Winding	20 ohms
Holding Torque	700g.cm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM2754	$31.90	$28.70	$25.50

NEMA17 STEPPER MOTOR

Two phase stepper motor with 1.8° ±5% per step.

SPECIFICATIONS	YM2756
Voltage	12VDC
Operating Current	1.7A per phase
Stepper Control	4 wire
Torque	54g/cm²
Holding Torque	40g/cm²

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM2756	$56.90	$50.90	$44.90

Motors

STANDARD DC MOTORS

THESE ARE NOT TOY MOTORS

Each motor briefly described below is a quality product with hardened drive shaft, sintered bearings and quality commutator brushes etc. They are ideal for any application where a compact high torque and reliable motor is required. Each motor is provided with a full data sheet which includes motor speed/torque/current/efficiency curves etc. Generous discounts for quantity purchases.

- 2.3mm driveshaft
- M2.6 threaded mounting
- Generously ventilated
- Solder tag terminals

YM2718

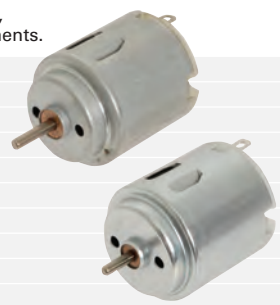
SPECIFICATIONS	YM2712	YM2716	YM2718
VOLTAGE (V)	6	12	12
NO LOAD			
Speed (rpm)	16,200	14,500	14,600
Current (A)	0.55	0.28	0.67
AT STALL			
Torque (g.cm)	191	372	1,200
Current (A)	5.6	5.21	17.2
AT MAX EFFICIENCY			
Efficiency (%)	49.6	66.1	55.1
Power (W)	5.96	5.56	26.5
Speed (rpm)	9,679	13,544	10,489
Torque (g.cm)	60	40	246
Current (A)	2	1.0	4.0
AT MAX POWER			
Speed (rpm)	7,845	8,266	9,304
Torque (g.cm)	80	160	326
Current (A)	2.6	2.4	5.0
DIMENSIONS (mm)			
Diameter	27.6 / 2.3	27.6 / 2.3	35.8 / 3.175
Total / Shaft Length	51 / 12.5	57 / 13	71 / 9.5
Mounting Thread Dia	2.6	2.6	3

RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
16,200	6	YM2712	$10.90	$9.80	$8.70
14,500	12	YM2716	$12.90	$11.60	$10.30
14,600	12	YM2718	$18.90	$17.00	$15.00

HOBBY MOTORS

Two models available. Ideal for hobbyist, experimenters, robotics and as replacements.

SPECIFICATIONS	YM2706	YM2707
Torque	Low	Medium
Operating Volts	1.5-4.5V	1.5-4.5V
Nominal Volts	3V	4.5V
Speed (No Load)	12000rpm	12500rpm
Current (No Load)	0.28A	0.25A
Speed (Max Eff)	8540rpm	9560rpm
Current (Max Eff)	0.69A	0.81A
Torque (Max Eff)	7.94gcm	17.86gcm
Diameter	20mm	23.6mm
Total Length	25mm	25mm
Shaft Length	8.1mm	6.5mm
Shaft Dia	2mm	2mm

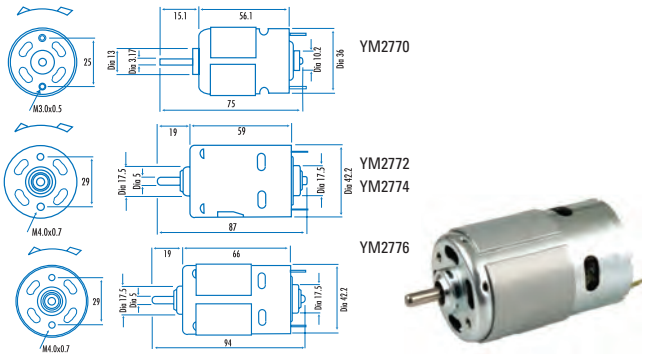


	Cat.	Qty 1+	Qty 5+	Qty 10+
Low	YM2706	$4.30	$3.85	$3.45
Medium	YM2707	$5.90	$5.30	$4.70

Motors CONTINUED

STANDARD (HIGH POWER) DC MOTORS

High speed and power from these compact ferrite magnet type DC motors. All units feature hard steel drive shafts, long life design and are built in an ISO 9002 quality environment.



SPECIFICATIONS	YM2770	YM2772	YM2774	YM2776
VOLTAGE (V)	12	6	12	12
NO LOAD				
Speed (rpm)	11,800	20,000	18,800	9,700
Current (A)	0.8	4.0	2.6	1.3
Operating Range (V)	6-12	3-6	6-12	6-18
AT STALL				
Torque (g.cm)	2700	1910	4900	6000
Current (A)	26	67	92	57
AT MAX EFFICIENCY				
Efficiency (%)	76	57	71	73
Power (W)	43	45	107	52
Speed (rpm)	9800	13730	15520	8490
Torque (g.cm)	420	320	670	600
Current (A)	4.7	13.5	12.8	6.0
DIMENSIONS (mm)				
Diameter	36	42	42	42
Total / Shaft Length	75 / 15	87 / 19	87 / 19	94 / 19
Shaft Diameter	3.17	5.0	5.0	5.0
Mounting Thread	M3	M4	M4	M4

RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
11,800	12	YM2770	$15.90	$14.30	$12.70
20,000	6	YM2772	$23.90	$21.50	$19.00
18,800	12	YM2774	$21.90	$19.70	$17.50
9,700	12	YM2776	$21.90	$19.70	$17.50

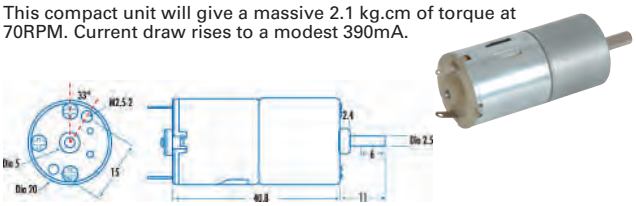
12VDC REVERSIBLE GEARHEAD MOTORS

The motors work equally well in forward or reverse motion. More specifications available on our website.

SPECIFICATIONS	YG2732	YG2734	YG2738
Torque G.cm	2100	12,000	50,000 @ 55rpm
Rated Voltage (Volts)	12.0V	12.0V	12.0V
Operating (Volts)	4.5 - 18Vmax	4.5 - 18Vmax	6 - 12Vmax
Current - No Load (Ma)	30	70	<450mA
Current - Full Load (Ma)	390	1380	14000
Gear Ratio	82:1	244:1	50:1
Shaft Speed (Rpm)	70	36	160

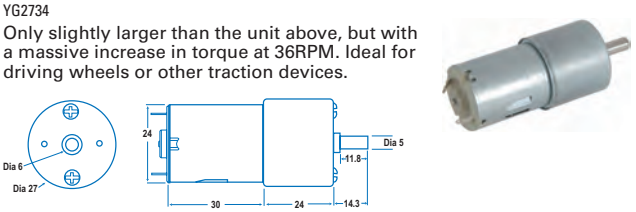
YG2732

This compact unit will give a massive 2.1 kg.cm of torque at 70RPM. Current draw rises to a modest 390mA.



YG2734

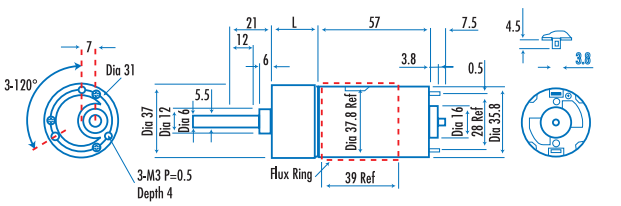
Only slightly larger than the unit above, but with a massive increase in torque at 36RPM. Ideal for driving wheels or other traction devices.



YG2738

For heavy duty applications. Massive 50kgs torque at 55RPM

- Specifications may vary



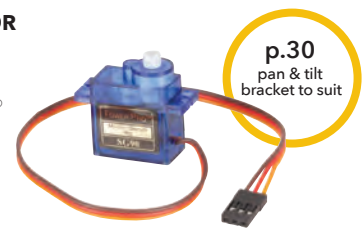
RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
70	12	YG2732	$18.90	$17.00	$15.00
36	12	YG2734	$29.90	$26.90	$23.90
55	12	YG2738	$53.90	$48.40	$42.90

Servos

9G MICRO SERVO MOTOR

Micro servo motor, perfect for use with XC4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino® Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm



p.30 pan & tilt bracket to suit

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM2758	$11.90	$10.70	$9.50

MINI SERVO 4.8V-6V

Mini sized servo perfect for remote control gadgets or robotics applications where size is at a premium.

SPECIFICATIONS	YM2760
Dimensions	35(L) x 16.9(W) x 32(H)mm
Weight	26g
Torque 4.8V	3400g.cm
Transit Time 4.8V	0.19 sec/60°
Torque 6V	4200g.cm
Transit Time 6V	0.15 sec/60°

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM2760	$24.90	$22.40	$19.90

SERVO MOTOR - STANDARD 6V WITH METAL GEAR

- High speed and high torque digital servos
- Dual ball bearing
- Metal gears for maximum strength and durability
- Operating Voltage: 4.8-7.2V
- Connector wire: 32cm
- Includes control horns and screw set
- Weight: 55g
- 40.7 x 19.7 x 42.9mm (standard servo size)
- Operating speed 4.8V: 0.25 sec/60° Cat. YM2763
- Operating speed 4.8V: 0.20 sec/60° Cat. YM2765

	Cat.	Qty 1+	Qty 5+	Qty 10+
Torque 4.8V 13kg.cm	YM2763	$43.90	$39.50	$35.00
Torque 4.8V 11kg.cm	YM2765	$43.90	$39.50	$35.00

MICRO LINEAR SERVO MOTOR

These tiny linear servo motors provide 10mm of linear throw with high speed movement. Small and light for RC aircraft. Pack of two units- one left hand and one right hand

- 3.7V - 5V supply voltage
- Measures 22mm x 15mm x 12mm excluding leads
- 0.12s for full travel at 5V
- Worm drive for zero-power position holding

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM2748	$45.90	$40.90	$35.90

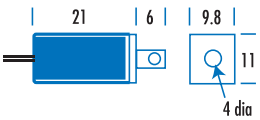
For next day delivery, or Click and Collect, see page 5

solenoids:

Range of DC & AC solenoids and actuators. Made to our factory specifications. You can safely design them in knowing that they will be available over the long term. Generous quantity discounts.
See website for datasheets.

ULTRA MINIATURE 12V

Small square frame unit, Pull type.
Full data supplied with unit.

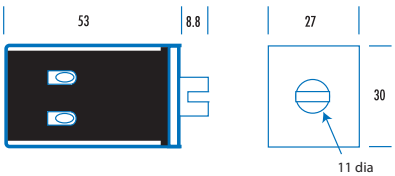


SPECIFICATIONS	SS0900
Coil Resistance	131Ω 10 watt (max)
Pulling Force	20 - 160g (25% duty cycle)
Stroke	0.5 - 4.0mm (25% duty cycle)
Total Weight	10g
Plunger Weight	2g

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS0900	$16.90	$15.20	$13.50

STANDARD 12V

Regular size square frame unit, Pull type, solder tip. Full data supplied with unit.

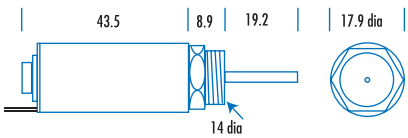


SPECIFICATIONS	SS0902
Coil Resistance	24Ω
Rated Power	6 watt
Pulling Force	200g-2kg (25% duty cycle)
Stroke	2.0 - 12mm (25% duty cycle)
Total Weight	205g
Plunger Weight	39g

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS0902	$34.90	$31.90	$27.90

TUBULAR 12V

Compact size, Push type. Full data supplied with unit.

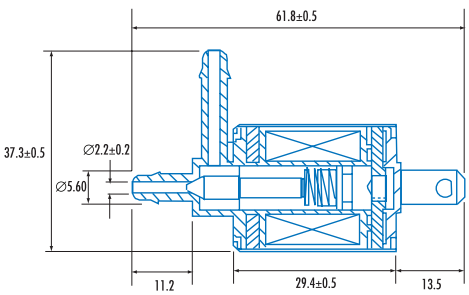


SPECIFICATIONS	SS0903
Coil Resistance	25.6Ω 20 watt @ 25% duty cycle
Pulling Force	220 - 940g (25% duty cycle)
Stroke	1.0 - 6.0mm (25% duty cycle)
Total Weight	81g

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS0903	$34.90	$31.90	$27.90

12VDC SOLENOID VALVE

Air valve solenoid, normally closed. Standard 1/4" Barb type hose fittings.



SPECIFICATIONS	SS0905
Operating Voltage	12VDC
Operating Current	350mA
Air Leakage	1cc/min maxat 4 PSI

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS0905	$24.90	$22.40	$19.90

Tamiya Power Transmission Components

SINGLE MOTOR 4 SPEED GEARBOX / AXLE ASSEMBLY

This brand-new Tamiya product features an all plastic moulded gearbox and motor casing. Included is a FA-30 type 3 volt electric motor, axle with 2 crank arm and tube of grease.

These gear ratios are user selectable:
12.7:1 114.7:1
38.2:1 344.2:1

	Cat.	Qty 1+	Qty 5+	Qty 10+
Single	YG2740	$23.90	$21.50	$19.00

DOUBLE MOTOR INDEPENDENT 4 SPEED GEARBOX / AXLE ASSEMBLY

Basically a double version of the unit above. Each motor can be separately driven and therefore when wheels are connected could rotate on the spot. Each gearbox is independent so it is possible to set different gear ratios for each box. Includes 2 x FA-30 type 3 volt motors.

The following gear ratios are user selectable:
12.7:1 38.2:1
114.7:1 344.2:1

	Cat.	Qty 1+	Qty 5+	Qty 10+
Double	YG2741	$29.90	$26.90	$23.90

PULLEY SET

This set would typically be used to transfer power in small energy systems. Set includes 2 x each 50 & 25mm pulleys, 2 x 11mm pulleys, bushings, screws, nuts and 1 metre of rubber drive band. This type of system will absorb transmission shock.

	Cat.	Qty 1+	Qty 5+	Qty 10+
Large	YG2869	$15.90	$14.30	$12.70

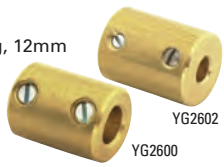
GERMAN MADE. These precision engineered components are a delight to play with. They offer solutions to small power transmission problems. We make no apologies for the price because well, they are German and they are magnificent quality.

SOLID SHAFT COUPLERS (FEMALE)

Machining from solid brass stock – 16mm long, 12mm diameter. Type I will connect 2 shafts on a common axis. Type II will reduce from 6.0 diameter to 4.0 diameter.

- Shaft fixed with grub screws

TYPE I CAT. YG2600
TYPE II CAT. YG2602



	Cat.	Qty 1+	Qty 5+	Qty 10+
Type I	YG2600	$12.90	$11.60	$10.30
Type II	YG2602	$12.90	$11.60	$10.30

2 SHAFT UNIVERSAL MOTOR / GEARBOX SET

This gearbox has a main output shaft exiting either side of the gearbox (to drive wheels, for example) and another single-ended shaft at 90° to the former. The gear set can be configured to give 3 set speeds.

- Metal chassis, includes motor

	Cat.	Qty 1+	Qty 5+	Qty 10+
Universal	YG2742	$23.90	$21.50	$19.00

find out more in store
Our staff offer friendly and helpful service. We're here to help.

Wheel Accessories

GEAR SET & SPUR GEAR SET

Gear set contains one pinion gear and two different sizes of radio gears. Spur gear set contains three different spur gears.

	Cat.	Qty 1+	Qty 5+	Qty 10+
Gear Set	YG2630	$12.90	$11.60	$10.30
Spur Set	YG2632	$10.90	$9.80	$8.70

WORM DRIVE SET

This set consists of a worm gear 24mm long x 12mm dia with an 8 turn worm screw. The worm has a 2.8mm axle hole which could probably be carefully drilled out to a larger diameter. The spur gear is 1/4" (6.35 wide) and 1 & 5/8" (41.2mm) diameter with a number of regular pitch-concentric 2.8mm holes across the face of the gear including one dead centre. It would be drilled out to accommodate a larger shaft. This gear has 40 teeth. Both are moulded in an engineering grade plastic.

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG2736	$12.90	$11.60	$10.30

2MM MALE & FEMALE GOLD CONNECTOR CHARGER LEADS

A range of charger, power and test cables with banana plugs, alligator clips and JST connectors, commonly used for toys, robotics, models, remote control hobby. Supplied with one red and one black quick connect 2mm wire set. Ideally used in battery packs or any other applications where good connection is required but can be easily and quickly removed.

- 1 x 2mm female gold connector, 20AWG silicone wire
- 1 x 2mm male gold connector, 20AWG silicone wire
- Both approximately 100(L)mm each

	Cat.	Qty 1+	Qty 10+	Qty 50+
	WC6018	$6.50	$5.50	$4.90

ALUMINIUM HUB WITH SET SCREWS

This device will accept a 6.35mm (1/4") shaft, set screw fixed, and connect to the flat face of a gear, typically the flat side of the larger 48 pitch gears.

- Coupling from the gear to the hub by 4 x set screws provided. Enables a motor to be securely fastened to a driving gear
- Hub 7/8" (22.5mm) dia

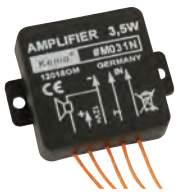
	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG2784	$10.90	$9.80	$8.70

Pre-Assembled Modules

UNIVERSAL AMPLIFIER MODULES

1 CHANNEL 3.5 WATT

Ideal as a bench-test amplifier for audio sources, or even as a mono headphone amplifier, this small audio amplifier can be operated from 4.5 V up to 12 VDC. Use two for stereo.



SPECIFICATIONS	AA0223 - 3.5 WATT
Output Power	3.5 W (max)
Operating Voltage	4.5 to 12 V
Speaker Impedance	4-16 ohms
Input Sensitivity	< 80mV
Frequency Response	40Hz-20kHz
Dimensions	30 x 25 x 15 mm

12 WATT

Small audio amplifier module is suitable for a number of purposes and has a range of suitable input voltages and load impedances.

SPECIFICATIONS	AA0225 - 12 WATT
Operating Voltage	6V - 16V, 800mA (max)
Output Power	12W (max) into 4-16 ohms
Frequency Range	40Hz-20kHz
Input Sensitivity	80mV
Dimensions	62 x 36 x 23mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
3.5W	AA0223	$29.90	$26.90	$23.90
12W	AA0225	$36.90	$33.20	$29.50

MONO AMPLIFIER MODULE

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9V supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-9VDC and is smaller than a 9V battery, allowing it to fit into the tightest of spaces.

SPECIFICATIONS	AA0373
Power	4 - 9VDC
Dimensions	65(L) x 35(W) x 20(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA0373	$9.90	$8.90	$7.90

UNIVERSAL PREAMPLIFIER MODULE - 1 CHANNEL

For microphones and diverse uses. This mini-module is simply connected between a power amplifier and a weak signal source (e.g. microphone).

SPECIFICATIONS	AA0220
Operating Voltage	9 to 24VDC
Frequency Response	20Hz to 20kHz
Input	2-50mV
Output	200mV - 5V
Dimensions	30 x 25 x 15mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA0220	$29.90	$26.90	$23.90

MULTI-VOLTAGE REGULATED ADAPTOR MODULE (STEPDOWN)

Ideal for when you need a reliable voltage source for a portable CD player or similar battery-powered device. Another use for this adaptor is for a peripheral computer power supply to power external Blu-Ray drive, powered speakers, modems, etc. Plug the input into your PC's internal power supply cable and get selectable regulated voltage out from 3 to 15VDC*. Output current capability is around 1.5 amps.

- Dimensions: 63(L) x 24(Dia.)mm

*Note: *Input voltage MUST be larger than the required output voltage.*

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0372	$12.90	$11.60	$10.30

3 AMP 24V TO 12V REDUCER

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included) should be used for superior performance.

SPECIFICATIONS	AA0266
Short-Circuit Protection	Thermal cutout
Input Voltage	24 to 26VDC
Output Voltage	12VDC
Maximum Load	3A
Dimensions	135(L) x 50(W) x 24(H)mm
Heatsink	50 x 100 x 30mm (rec. size) use Cat. HH8572 or similar

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0266	$36.90	$33.20	$29.50

For next day delivery, or Click and Collect, see page 5

Pre-Assembled Modules CONTINUED

DC TO DC CONVERTER MODULES

1 YEAR WARRANTY

Converter modules that can step-up or step-down voltages so you can power your devices where a different power source is present. This could include powering 12VDC devices from a 6VDC motorbike battery or to run 12VDC devices from a 24VDC battery found in trucks. They feature protection against short-circuits, overload and over-heating.
See our website for datasheets.

Three models to chose from:
DC To DC Step Down Module AA0236
DC To DC Step Up Module AA0237
24VDC to 12VDC Step Down Module *(not user selectable)* AA0238

AA0236 AA0237 AA0238

SPECIFICATIONS	AA0236	AA0237	AA0238
Input Voltage	6-28VDC	6-14VDC	24VDC
Output Voltage	3-15VDC	11-26VDC	12VDC
Max Output Current	1.5A	2A	1.1A
Dimensions	60(L) x 45(W) x 20(D)mm	70(L) x 60(W) x 23(D)mm	70(L) x 60(W) x 23(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5A	AA0236	$34.90	$31.90	$27.90
2A	AA0237	$39.90	$35.90	$31.90
1.1A	AA0238	$34.90	$31.90	$27.90

BATTERY DISCHARGE PROTECTOR

Protects your car battery from total discharge by switching off appliances before the battery voltage drops to an unrecoverable level. When battery voltage is reestablished by recharging, it switches appliances on automatically. The interrupting voltage is adjustable from 10.4. to 13.3 VDC. Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.

SPECIFICATIONS	AA0262
Max. Switching Current	12V / 20A
Interrupting Voltage	10.4 - 13.3VDC
Resetting Voltage	approx. 0.8V (+/-0.3V) above interrupt voltage
Current Consumption	< 0.7mA when OFF, < 1.6mA when ON
Dimensions	87(L) x 60(W) x 32(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0262	$54.90	$49.40	$43.90

SPEEDO CORRECTOR MODULE FOR CARS

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.

- Power: 12VDC
- Dimensions: 63(L) x 46(W) x 25(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA0376	$55.90	$50.30	$44.70

FREQUENCY RELAY MODULE FOR CARS

It uses a standard tacho, road speed, or many other pulse outputs to switch a relay. The switch frequency can be set to trip when it is rising or falling, and it features adjustable hysteresis (the difference between trigger on/off frequency). You could configure it to trigger water spray cooling on deceleration, shift light activation, adjustable aerodynamics based on speed, intake manifold switching and much more.

- Dimensions: 72(L) x 65(W) x 43(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA0377	$49.90	$44.90	$39.90

12 VOLT TWILIGHT SWITCH

This handy module senses the ambient light level and will switch external devices on/off at night and in the morning. The unit operates from 12VDC and its changeover contacts are rated at 25VDC @ 3A. Power consumption is only 2mA so it is ideal for automotive or battery-driven applications. Use it for garden lighting or security applications etc.

- Dimensions: 72(L) x 50(W) x 32(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	AA0323	$34.90	$31.40	$27.90

12VDC 8A DIMMER/MOTOR SPEED CONTROLLER

DC speed controllers are ideal for slowing down pumps and motors or dimming lights, but some use resistance circuits or rheostats wich are very inefficient. The pulse width modulation (PWM) used in this controller allows you to vary the output from 0 to 100% while maintaining a very high efficiency. When used on motors this ensures full torque is available at very low speed and the motor won't shudder at start-up. Operates on any 12VDC system and capable of controlling devices rated at up to 8 amps.

- Internal circuitry is fully potted & the control potentiometer is splash proof making this suitable for marine environments and other harsh conditions
- Dimensions: 97(L) x 46(W) x 47(H)mm

		Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	8A	MP3209	$43.90	$39.50	$35.10

MAINS MOTOR & LAMP CONTROLLER

This module can be used for various mains rated applications including lamp dimming, soldering iron temperature adjustment and collector or split-pole motor speed control. Features a 600W continuous and 1200W peak loading capacity with adjustable potentiometer control. Please note: fluorescent, quartz and energy saving lamps, and motors with starting capacitors should not be used with this module.

- Knob included.

SPECIFICATIONS	AA0346
Continuous Power	600W
Maximum Power	1200W
Dimensions	62 x 35 x 21mm

Please note that this kit operates on 240VAC mains voltage and you should be extremely careful when using these voltages. If in doubt, have an electrician check your work before applying power.

	Cat.	Qty 1+	Qty 5+	Qty 10+
	AA0346	$49.90	$44.90	$39.90

PROGRAMMABLE INTERVAL 12V TIMER MODULE

An easily programmed low cost electronic timer. It operates from 12VDC, with low current drain: <50mA when relay is on, <5mA when relay is off. It is link programmed for either a single ON timing period, or continuous ON/OFF cycling and can be link programmed for any of 48 different time periods, separately for ON time and OFF time. Selectable periods are 1/2/3/4/5/6/7/8 /10/20/30/40/50/60/70/80 seconds, minutes and hours. It may be restarted at any time simply by pressing reset push button.

SPECIFICATIONS	AA0378
Power	12VDC
Dimensions	72(L) x 65(W) x 43(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA0378	$48.90	$44.00	

12V 3A TIMER MODULE 2 SECONDS TO 23 MINUTES

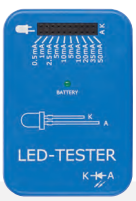
A versatile and useful timer module that can be set for periods of 2 seconds to 23 minutes. The start and stop functions are controlled by simple switch inputs and the relay output can control a device of up to 25V 3A.

SPECIFICATIONS	AA0364
Operating Voltage	12 - 15VDC
Current Consumption	20mA/80mA (Relay off/on)
Relay Point	Single pole, 25VDC, 3A
Time Adjustment	2 sec to 23 min (+/-30%)
Dimensions	87(L) x 60(W) x 33(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA0364	$48.90	$44.00	$39.10

LED TESTER

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can be made simultaneously.



SPECIFICATIONS	AA0274
Operating Voltage	9V battery required
Test Currents	1mA, 2.5mA, 5mA, 10mA, 20mA, 50mA
Dimensions	58(L) x 44(W) x 25(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0274	$16.90	$15.20	$13.50

electronics kits & projects:

We are still making a surprising number of kits for printed magazine articles. This is especially so for past projects described in the venerable "Silicon Chip" magazine. You can identify these projects as the Silicon Chip logo will appear alongside the kit in question. Indeed, all kits shown have an icon revealing the original source magazine article, including recent kits from DIYODE magazine.

BACK CATALOGUE:

We have also continued to expand our back catalogue of kits that we still have stock of at the Head Office but do not carry in stores. If you are looking for a kit of an old project, check out our website at jaycar.co.nz/kitbackcatalogue for a full list of these great kits.

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a guide to kit icons:

SIMPLE
These kits are straightforward to assemble, generally built in one session and will require some basic electronics knowledge and soldering skills. Most are battery or AC adaptor powered. They may not have enclosures (i.e."boxes") or front panels.

DETAILED
Similar to the above but basically bigger. They are either "short forms" of larger projects or are fully operational projects with enclosures, front panels, etc. A greater knowledge of electronics is required to understand their operation and "troubleshoot" if necessary.

COMPLEX
All big projects which by their nature are complex, require several sittings to complete and may require some mechanical assembly. A good knowledge of electronics and manual dexterity is necessary to ensure success.

240V POWERED
All mains kits have this logo. We do this because we feel it is necessary that only experienced kit constructors should attempt mains powered projects. It is generally a good idea to have a competent colleague check your work before applying power.

BATTERY INCLUDED
Batteries are included with the kit.

AUTOMOTIVE KIT
Kit is specifically designed for automotive (which could mean motorcycle, caravan or boat as well).

BUILD TIME
We understand that your time is valuable. We have therefore decided to provide you with an estimated build time for all our kits. Each kit includes a stopwatch logo that indicates construction time. We know that you will find this useful.

KWIK KIT
A low cost fast assembly range of kits. Kwik kits are a fully imported range that can be assembled in just one sitting, sometimes only minutes! All printed circuit boards are screened with a component overlay. The instructions assume component knowledge & the ability to follow simple schematic diagrams

SMD COMPONENT
Kit involves soldering a SMD (Surface Mount Device). Suitable soldering iron for SMD soldering and proper handling techniques are required.

SMD COMPONENT PRE SOLDERED
Kit supplied with surface mount component already soldered onto the PCB

Guarantee on Kits

Most kits are successfully constructed with few problems. However, we recommend that if a kit builder does not have enough knowledge to diagnose faults, that the project should not be started unless assistance can be obtained. Unfortunately, one small faulty solder joint or wiring mistake can prevent a project from operating, which would take hours to locate and at normal service rates the service charge could well be more than the total cost of the kit. If you believe that you may have difficulty in building a kit (which is simply a complete set of separate parts made up to a list provided by the major electronics magazines) and you cannot get assistance from a friend, we suggest you return the kit to us in its original condition for a refund under our satisfaction guarantee. Unfortunately, kits cannot be replaced under our satisfaction guarantee once construction has been commenced. However, should you find any faulty parts (only), we will gladly replace them under warranty.

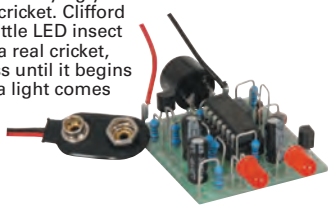
Audio Effects Kits

CLIFFORD THE CRICKET

Refer: Silicon Chip Magazine Dec 1994

Clifford hides in the dark and chirps annoyingly until a light is turned on - just like a real cricket. Clifford is created on a small PCB and has little LED insect eyes that flash as it sings. Just like a real cricket, it waits a few seconds after darkness until it begins chirping, and stops instantly when a light comes back on.

- PCB, piezo buzzer, LDR plus all electronic components supplied
- PCB: 41 x 36mm



	Cat.	Qty 1+	Qty 5+
Kit	KC5178	$21.90	$19.70

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THEREMIN SYNTHESISER KIT MKIII

Refer: Silicon Chip Magazine Jan 2018

Originally invented in 1919 using valve technology, and as featured on the soundtrack for the 1951 film "The Day the Earth Stood Still", the all "new" completely transistorised Theremin will give you a truly retro sound.

This kit is easy to build with everything incorporated into one circuit board. Also, most components, the switch, the pot and the power socket are mounted on the circuit board to eliminate messy wiring; the use of on board voltage regulation to suit an AC power supply eliminates the noise that results from modern switch mode power supplies; and it can also be powered by an external 12 volt battery.

We'll be honest, it is tricky to play and generally suits someone experienced with string instruments like a violin (Leon Theremin himself was a cello player), but with a little practice you can play some basic tunes, or just use it to make eerie sci-fi sound effects.

	Cat.	Qty 1+	Qty 5+
Kit	KC5537	$119.00	$106.90

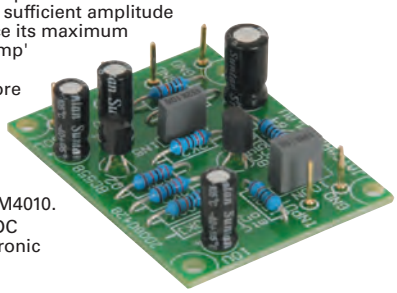
For next day delivery, or Click and Collect, see page 5

Amplifier & Preamplifier Kits

"PRE-CHAMP" VERSATILE PREAMPLIFIER

Refer: Silicon Chip Magazine July 1994

This tiny preamp was specifically designed to be used with the 'Champ' amplifier KC5152. Unless you have a signal of sufficient amplitude the 'Champ' will not produce its maximum power output. The 'Pre-Champ' is the answer with a gain in excess of 40dB, which is more than enough for most applications. You can vary the gain by changing a resistor and there is even provision on the PCB for an electret microphone. Use AM4010.



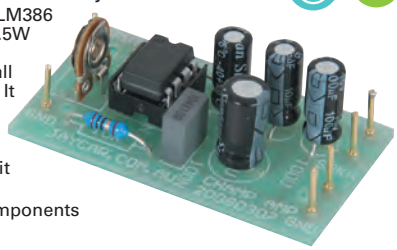
- Power requirement 6-12VDC
- Kit includes PCB and electronic components
- Can be battery powered

	Cat.	Qty 1+	Qty 5+
Kit	KC5166	$12.90	$11.60
Microphone To Suit	AM4010	$3.00	$2.60
Recommended Box - UB5	HB6015	$3.90	$3.10

"THE CHAMP" AUDIO AMPLIFIER

Refer: Silicon Chip Magazine February 1994

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9 volt supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-12VDC and is smaller than a 9 volt battery, allowing it to fit into the tightest of spaces.



- PCB and all electronic components included
- PCB: 46 x 26mm

	Cat.	Qty 1+	Qty 5+
Kit	KC5152	$12.90	$11.60
Recommended Box - UB5	HB6015	$3.90	$3.10

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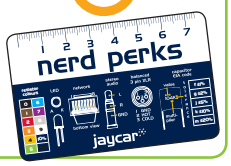

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'THE CHAMPION' AUDIO AMPLIFIER KIT WITH PRE-AMPLIFIER

Refer: Silicon Chip Magazine January 2013

An amplifier and pre-amplifier combination for all those general-purpose audio projects. It uses the AN7511 audio IC to deliver 2W music power into 8 ohms from a 9 to 12V supply. Features low distortion, two inputs (mixed 1:1), over-temperature protection (auto-limiting), mute and standby control. Pre-amplifier is also suitable for microphones and electric guitars, and can be separated from the amplifier for individual use. Kit supplied with silk-screened PCB, heatsink and PCB mount components.

Note: Optional 10k ohm potentiometer for external volume control use RP7610

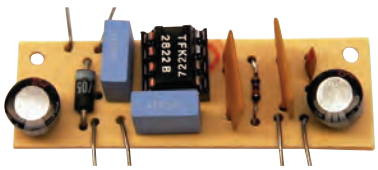
SPECIFICATIONS	KC5519
Operating Voltage Range	4 - 13.5VDC
Output Power	up to 4W
Music Power	3W @ 9 - 12V
Signal-To-Noise Ratio	65dB
Frequency Response	-2.5dB @ 20Hz, -0.2dB @ 20kHz
Thd+N	1kHz: 0.25%
Gain	34dB for Amplifier, up to 58dB with pre-amplifier
Input Sensitivity For Amp Only	52mV RMS @ 5V, 125mV RMS @ 9 - 12V
Input Sensitivity For Amp & Pre-Amp	2mV RMS @ 5V, 5mV RMS @ 9 - 12V
Quiescent Current	2mA (Pre-amplifier) + 30-60mA (Amplifier)
Standby Current	2mA (Pre-amplifier) + 1-10uA (Amplifier)
PCB	101x41mm

	Cat.	Qty 1+	Qty 5+
Kit	KC5519	$28.90	$26.00

1 WATT AUDIO AMPLIFIER

This tiny PCB measuring only 28 x 28mm incorporates all the electronics for a 1 Watt amplifier. 4 to 12VDC operating voltage, 50mV input sensitivity, 8 ohm output and 20 to 25000Hz output frequency. Optional connection for a 10k ohm - 100k ohm logarithmic potentiometer (not included) for adjustable volume control.

- PCB and components
- 9VDC (use MP3146)
- PCB: 41 x 24mm



	Cat.	Qty 1+	Qty 5+
Kit	KG9032	$11.90	$10.70
9VDC Plugpack To Suit	MP3146	$21.90	$19.30

MINI-D 2 X 10W CLASS-D AMPLIFIER

Refer: Silicon Chip Magazine September 2014

This compact amplifier can deliver 10W per channel stereo or 30W mono, and is powered by DC so it could be used for busking running of a battery. Output power depends on operating voltage (8 to 25VDC) speaker impedance (4 to 8 Ohm) used. With a 12VDC supply it can deliver 7.5W per channel into 8-ohm speakers or 2 x 15W into 4-ohm loads. Highly efficient there is no need for a heatsink!

- Up to 91% efficient
- Selectable gain
- On-board volume control
- Low-power shutdown mode
- Over-temperature, over-current, short circuit and speaker protection
- PCB: 85 x 46mm

Supplied with double sided, solder-masked screen-printed PCB, & ALL SMD components pre-soldered to the PCB to save you soldering them yourself.

	Cat.	Qty 1+	Qty 5+
Kit	KC5530	$69.90	$62.90

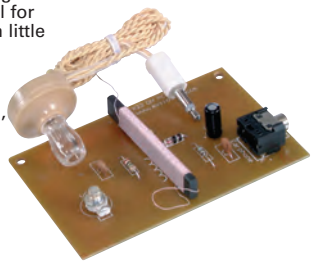
AV Kits - Radio & FM Kits

CRYSTAL RADIO

A radio without batteries!

Enjoy AM broadcasting without using battery or other power sources. Ideal for entry-level students or hobbyist with little electronics experience.

- Includes circuit explanation
- Kit supplied with screen printed PCB (81x53mm), germanium diode, pre-wound coil, earphone and all components
- PCB: 80 x 50mm



	Cat.	Qty 1+	Qty 5+
Kit	KV3540	$24.90	$22.40

Electronics Magazines

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MADE IN SILICON CHIP

	Cat.	Qty 1+
	BE5027	$12.90

Duncan Abbott likes to

think. possible.

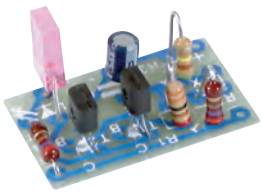
"My fav. tech at the moment is MS HoloLens for augmented reality. Ability to overlay digital displays on reality allows for massive advances in meetings (face to face, but not), Design (To Scale models of anything from cars to buildings), Inspections of anything (e.g. properties over time) through overlay Tech."

Household Kits

LIQUID LEVEL SENSOR

When two contacts are shorted by liquid, an LED will illuminate. Use in applications such as an overflow alarm and rain detector. Connect Relay Card KG9142 for a relay output to operate lights, sirens or other warning devices.

- Project requires 9VDC
- Kit supplied with Kwik Kit PCB and all electronic components
- PCB: 45 x 15mm



	Cat.	Qty 1+	Qty 5+
Kit	KG9138	$11.90	$10.70
Recommended Box - UB5	HB6015	$3.90	$3.10

THE 'FLEXITIMER'

Refer: Electronics Australia March 1991

Now in it's third revision by Jaycar, the Flexitimer uses a 555 timer coupled with a binary counter to create a simple and consistent timing circuit. In the original one-shot mode the timer will count up to the set point and switch the relay once. In the additional interval mode the timer will continue switching the relay at each recurrence of the set point. The circuit can be set at 11 time points with the minimum being 7 seconds and each step doubling the time to a maximum of 2 hours. Other times are possible by changing components C1, R1, and R2. Features of the third revision include a restarting the one-shot mode from an external switch or signal, a more energy efficient design, & space on the PCB for terminal blocks (not included).

- Requires 12- 15V DC (use Cat. MP3147 plugpack) / Optional UB5 case (HB6015)
- PCB Dimensions: 74 x 47mm

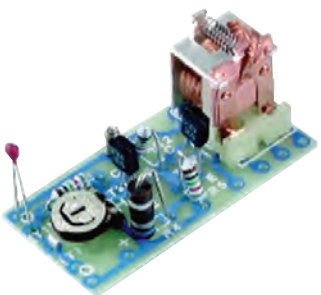
	Cat.	Qty 1+	Qty 5+
Kit	KA1732	$28.90	$26.00
12VDC Plugpack To Suit	MP3147	$21.90	$19.30
Recommended Box - UB3	HB6013	$4.90	$4.10

TEMPERATURE SWITCH

Ideal for turning fans or heaters on at certain temperatures.

This kit operates a relay when a preset temperature is exceeded and drops-out the relay when temperature drops. The relay included is capable of switching small currents only, so a larger relay or switching device should be employed if switching mains voltages or heavy currents. Ideal as a thermostat, ice alarm, hydroponics applications, etc. A small trimpot is used to adjust the cutout temperatures for the relay in the range of approx -30 to +150° C.

- PCB NTC thermocouple and components
- 12VDC, 100mA
- PCB: 56 x 28mm



	Cat.	Qty 1+	Qty 5+
Kit	KG9140	$29.90	$26.90
12VDC plugpack to suit	MP3147	$21.90	$19.30
Recommended Box - UB5	HB6015	$3.90	$3.10

free boxes!

MOVING HOUSE? NEED SOMETHING FOR STORAGE?

In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

For next day delivery, or Click and Collect, see page 5

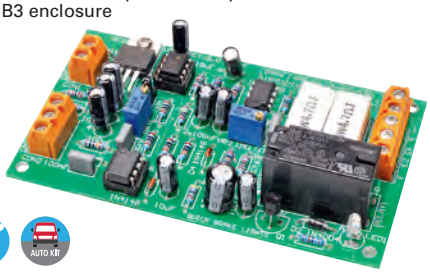
Automotive Kits

QUICKBRAKE BRAKE LIGHT WARNING KIT

Refer: Silicon Chip Magazine January 2016

Over one quarter of vehicle accidents in the Sydney area are of the rear-end variety. The Quickbrake reduces this risk by detecting when your foot quickly lifts off the accelerator pedal and activating your brake lights before your foot has even touched the brake pedal. This can increase apparent reaction time by up to 1 second, and at 100kph this equates to about 14 metres between you and the other car!

- Suitable for 12V vehicle systems
- Short form kit includes PCB and components only
- Requires wiring and UB3 enclosure
- PCB: 106.5 x 60mm



	Cat.	Qty 1+	Qty 5+
Kit	KC5532	$33.90	$29.90

CAR BATTERY MONITOR

Refer: Electronics Australia May 1987

Don't get caught with a flat battery! This simple electronic voltmeter lets you monitor the condition of your car's battery so you can act before getting stranded. 10 round 5mm LEDs tell you your battery's condition.

- Kit includes PC board and all components
- PCB: 62 x 39mm

	Cat.	Qty 1+	Qty 5+
Kit	KA1683	$24.90	$22.40
Recommended Box - UB5	HB6015	$3.90	$3.10

Harrison Carter likes to

think. possible.

"3D printers are insanely useful. In the next 5-10 years, households will begin having SLA printers in the same way that we have document printers today. They will be plug and play. They will require zero manual calibration and companies will (for a fee) allow the download of spare parts."

Automotive/Marine Kits

ULTRASONIC ANTIFOULING KIT FOR BOATS

Refer: Silicon Chip Magazine May/June 2017

This is an improved design from our popular kit (KC5498) from 2010 that helps reduce marine growth on the boat hull up to 8m. This new design has a second channel option (KC5536) for larger boats up to 14m, soft-start feature, low current drain during shut-down and LED & Neon operation indicators.

- Suitable for boats up to 14m (up to 8m with one transducer).
- Ideal for boats with single-skin glass-reinforced plastic (GRP) or fibreglass, steel, aluminium or concrete hulls
- Powered by the boat's 12V battery
- Adjustable low-battery shut-down
- Very low current drain during shut-down
- Soft-start feature reduces surge current.
- LED indicators for power, low battery or fault
- Neon indicators for ultrasonic drive operation

Kit includes all specified parts to make a single channel version for boats up to 8m, including one transducer. SECOND CHANNEL: To make it into a Dual Channel purchase add-on Kit KC5536 (Add-on Second Channel with Transducer)

SECOND CHANNEL ADD-ON PACK FOR ULTRASONIC ANTIFOULING KIT FOR BOATS

Refer: Silicon Chip Magazine May/June 2017

This is the add-on kit to make the KC5535 Ultrasonic Anti-Fouling Kit For Boats into a dual channel, so it can work on boats up to 14m. For more details see KC5535. Kit includes all specified parts to make the second channel, including one transducer.

SPECIFICATIONS	BOTH
Operating Supply Voltage	11-16V DC
Average Current Drain	Typically 320mA for one transducer, 640mA for two transducers
Peak Current:	2A
Output Frequency Range	19.08kHz to 41.66kHz in 14 bands
Frequency Steps	12 steps in each band; 80Hz steps at 20kHz increasing to 344Hz steps at 40kHz
Signal Burst Period	1000 cycle bursts ~600ms at 20kHz and ~300ms at 40kHz
Burst Interval Period	Between 300ms and 600ms
Dual Transducer Drive	Alternate
Transducer Drive Voltage	250VAC (about 700V peak-to-peak)
Low-Battery Cut-Out Threshold	Adjustable from 0-15V
Low-Battery Cut-In Threshold	0-2.5V above cut-out threshold
Low-Battery Shut-Down Quiescent Current	170uA
Power-Up Delay	30 seconds

	Cat.	Qty 1+	Qty 5+
Ultrasonic Antifouling Kit for Boats	KC5535	$289.00	$259.00
Second Channel Add-on	KC5536	$199.00	$178.90

Educational Books

KIT CONSTRUCTORS MANUAL

A must for amateur constructors. Contains much useful information for the more experienced. Huge amounts of information on construction and identification of parts.

- 8 pages

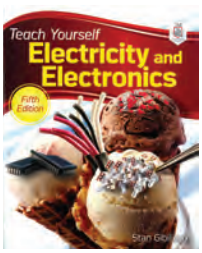
MADE IN

	Cat.	Qty 1+
	BI8200	$2.00

TEACH YOURSELF ELECTRICITY AND ELECTRONICS

Comprehensive, straightforward and well-written, this book covers everything from atomic structure to DC & AC theory, semi-conductors, integrated circuits, digital electronics & communications. Each chapter has a quiz at the end so you can test your knowledge. One of the best entry-level self-teaching textbooks on electronics we've ever seen.

- Softcover. 734 pages with illustrations
- 232 x 190mm



	Cat.	Qty 1+
	BM7108	$79.90

Power Kits

12VDC RELAY CARD

KwiK Kit · 15 MINS · SIMPLE

Add a relay output to your equipment.

This kit will close a relay's contacts with as little as 5mA to trigger the circuit. Literally any kit you see on these pages that uses an LED as a trip-condition indicator, can be used with this nifty project. Use the relay to sound buzzers, switch on lights, operate solenoids, trigger alarms, etc.

- Operation: common ground - output LED to ground
- Kit includes Kwik Kit PCB, relay plus electronic components
- PCB: 45 x 17mm

	Cat.	Qty 1+	Qty 5+
Kit	KG9142	$15.90	$14.30

UNIVERSAL +/- 15VDC 1A POWER SUPPLY REGULATOR

SILICON CHIP · 30 MINS · SIMPLE

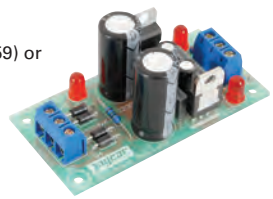
Refer: Silicon Chip Magazine March 2011

This is an upgraded version of the original universal power supply kit published in August 1988. One small board and a handful of parts will allow you to create either a regulated ±15V rail or +15VDC single voltage from a single winding or centre tap transformer (not included). Substitute different regulators to these supplied and you can alter the output voltage to your requirements. Upgrades in this design include improved parts layout and terminal blocks for inputs and outputs. Kit includes PCB and all components for 15 volt versions, transformer sold separately.

PCB: 72 x 30mm

Power Supply Options:

- ±15V rails from 15V AC plug pack (MP3059) or transformer (MM2002)
- ±15V rails from 30V AC centre tapped transformer (MM2007)
- +15VDC from a single or centre tap transformer
- Different voltages using 78xx and 79xx series regulators (not included)



	Cat.	Qty 1+	Qty 5+
Kit	KC5501	$21.90	$19.70
Transformer To Suit	MM2002	$15.90	$14.30
Transformer To Suit	MM2007	$10.90	$9.50
Plugpack To Suit	MP3059	$33.90	$29.90

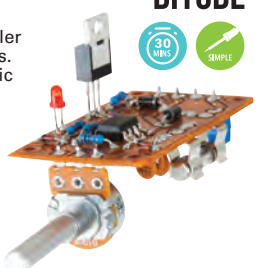
5A 12VDC PWM MOTOR SPEED CONTROLLER KIT

DIYODE · 30 MINS · SIMPLE

Refer: Diyode Magazine March 2018

This kit is a "bare bone" motor speed controller for fairly low current, low voltage applications. It is ideal, for example, to control small robotic motors or pump motors. It costs about one third of the more sophisticated PWM (Pulse-Width-Modulated) controller kits shown elsewhere in this section (although these kits are higher current capacity).

Note: image shown is DIYODE's prototype. The kit includes a solder-masked and silkscreened PCB.



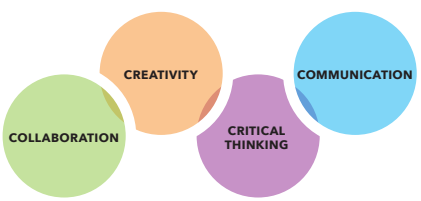
	Cat.	Qty 1+	Qty 5+
	KD6102	$16.90	$14.90

what is STEM?

STEM, or Science, Technology, Engineering and Mathematics is a curriculum based on the idea of educating students in these four specific disciplines using an interdisciplinary and applied approach. Each has a critical role to play but also enables discovery and progress in other fields.

THE STUDENT EXPERIENCE

Through participation in STEM opportunities, youth learn skills like:



Sci-Fi Kits

JACOB'S LADDER MK3

DANGER HIGH VOLTAGE · SILICON CHIP · 2 HRS · COMPLEX

Refer: Silicon Chip Magazine February 2013

A spectacular rising ladder of bright and noisy sparks for theatre special effects or to impress your friends. This improved circuit has even more zing and zap than it's previous design from April 2007 and requires the purchase of a VS Commodore 12V ignition coil (available from auto stores and parts recyclers). Kit supplied with silk-screened PCB, diecast enclosure (111 x 60 x 30mm), per-programmed PIC, PCB mount components and pre-cut wire/ladder.

- Powered from a 12V 7Ah SLA or 12V car battery

Note: Battery not included.

WARNING: THE JACOB'S LADDER KIT USES POTENTIALLY DANGEROUS VOLTAGE.

	Cat.	Qty 1+	Qty 5+
Kit	KC5520	$79.90	$71.90

Test Equipment

USB PORT VOLTAGE CHECKER

SILICON CHIP · 60 MINS · DETAILED

Refer: Silicon Chip Magazine July 2013

An easy way to test a USB port to see if it is dead, faulty or incorrectly wired to help prevent damaging a valuable USB device you plan to connect. Voltage is indicated using three LEDs. The complete project can be protected using the supplied clear heatshrink tubing. Kit supplied with double sided, soldermasked and screenprinted PCB with SMDs presoldered, clear heatshrink, USB connectors and components for USB 2.0 & USB 3.0.

- PCB: 44 x 17mm

	Cat.	Qty 1+	Qty 5+
Kit	KC5522	$42.90	$38.60

DIGITAL MULTIMETER KIT

2 HRS · DETAILED

Learn everything there is to know about component recognition and basic electronics with this comprehensive kit. From test leads to solder, everything you need for the construction of this meter is included together will a detailed manual. With test questions and schematic supplied in the manual, the kit can be geared to an individual or class learning environment, making it an excellent choice for first year trade apprentices. Kit includes DMM case, LCD, solder, battery, test leads, PCB, comprehensive 18 page learning manual and electronic components.

- All you'll need is a soldering iron
- Meter dimensions: 67(W) x 123(H) x 5(D)mm

p.226 - huge range of DMMs

	Cat.	Qty 1+	Qty 5+
Kit	KG9250	$29.90	$26.90

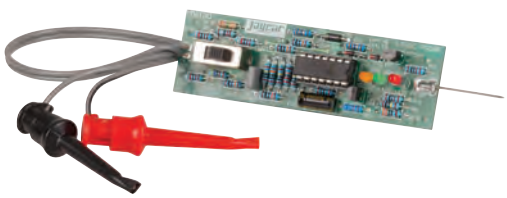
LOGIC PROBE KIT

DIYODE · 60 MINS · DETAILED

Refer: Diyode Magazine Oct 2017

This logic probe will help you diagnose and troubleshoot your 3.3V or 5V circuits, including Arduino® and Raspberry Pi projects. It indicates a logic low or logic high state on the green and red LEDs, and shows a shift between states on the orange LED. There is also a switch for TTL or CMOS circuits. Kit supplied with double-sided screen printed PCB and specified parts. We've even thrown in the paperclip for the probe tip.

You'll need to 3D print your own case though, for which you can download the print file from the DIYODE website.



	Cat.	Qty 1+	Qty 5+
Logic Probe Kit	KD6100	$16.90	$14.90

Sphero

SPHERO SPRK+ PROGRAMMABLE ROBOT IN A BALL

NEW

The Sphero SPRK+ App Enabled Robot ball is a perfect introduction to robotics and programming. The Lightning Lab app which makes programming quick and easy, allows you to get started and understand the basics very quickly.

- The Sphero SPRK+ connects to your devices via Bluetooth SMART connectivity, so you can get up and running right away.
- It's designed to support STEM learning and can be used at home or school.
- This educational resource is a great introduction to robotics, coding and programming.
- There are different LED light settings to choose for a more customised experience.
- The SPRK+ has a durable construction with a scratch resistant, UV coating.
- Includes maze tape, 360-degree protractor and sticker sheet
- Run time is around 1 hour on a full battery charge.
- Inductive charging base with USB charging cable

GET IT ON Google Play

Download on the App Store

STEM

	Cat.	Qty 1+
	KJ9200	$249.00

SPHERO MINI GREEN BALL PROGRAMMABLE ROBOT

NEW

The Sphero mini App Enabled Robot ball is a perfect introduction to robotics and programming The Mini has a gyroscope, accelerometer, and LED lights. With almost an hour of play time, Sphero Mini is the next big thing.

- Driving - Drive Mini using different modes with the Sphero Mini app - Joystick, Tilt, Slingshot, or Face Drive.
- Face Drive™ - Face Drive is a hilarious new feature that uses your facial expressions to drive the ball.
- Gaming - Sphero Mini can be used with the app as a video game controller. Play 3 games with more updates on the way.
- Coding - Download the Sphero Edu app and program your Sphero Mini bot using scratch blocks or JavaScript text programs.
- Interchangeable Shells - Colourful, interchangeable shells allow you to switch one out to suit your mood.

Included:

- Sphero Mini
- Micro USB charging cable
- 3 Mini Traffic Cones
- 6 Mini Bowling Pins
- Sphero Play app available for download in App Store and Google Play
- Sphero Edu app available for download on iOS®, Android®, Kindle, Mac®, Windows, and Chrome

GET IT ON Google Play

Download on the App Store

STEM

	Cat.	Qty 1+
Green	KJ9202	$99.90
Blue	KJ9204	$99.90

meet edison robot kit

A compact, sturdy robot that can be programmed in 3 different ways, making it suitable for all ages. Edison is your new robot buddy who will teach you about electronics, programing and robotics in a fun and engaging way. He's equipped with all the sensors, outputs and motors needed to introduce you to the amazing world of robotics. Once you've learned all about Edison's abilities, sensors and controls you can move on to programming him.

FOR BEGINNERS:

Edison has a barcode scanner to activate one of six inbuilt programs, including line following, clap controlled driving and obstacle avoidance.

FOR INTERMEDIATE:

EdBlocks is a drag-and-drop block based programming language and can run in a browser. EdWare is the next level up from EdBlocks, with the simplicity of drag-and-drop & more features.

FOR ADVANCED:

EdPy is the hardcore programming option for those who want to take their Edison to the limit. Requires 4xAAA batteries (not included).

Edison robotics for everyone

STEM

	Cat.	Qty 1+	Qty 3+	Qty 6+
MeetEdison Robot Kit	KR9210	$119.00	$106.90	$94.90

EDCREATE - EDISON ROBOT CREATOR'S KIT

The EdCreate Edison robot creator's kit is a 5-in-1 expansion pack construction system. Designed to work with the Edison robot, EdCreate enriches students' STEM education experience through interactive engineering and programming projects.

The EdCreate system can be used with Edison robots to complete five EdBuild projects:

- EdTank
- EdDigger
- EdRoboClaw
- EdCrane
- EdPrinter

The EdBuild projects require progressive levels of coding capabilities, making them a perfect addition to the Edison programming and robotics curriculum.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KR9212	$49.90	$44.90	$39.90

MEET EDISON ROBOT SPARE PARTS KIT

This collection of spare parts for the MeetEdison robot has all the removable parts, so there's no need to panic if you lose a bit! It also includes a sachet of silicon grease to keep your robot rolling smoothly. See website for full parts list.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KR9211	$33.90	$29.90	$26.90

EDMAT A1 VINYL MAT FOR EDISON ROBOT

This durable vinyl mat measures 841 x 594 mm and is a fantastic accessory for your Edison v2 Robot.

The EdMat features:

- Barcode and track for line tracing
- Barcode and arena for Sumo wrestle
- Barcode and track for bounce in borders
- Barcodes for clap controlled driving, avoid obstacles and follow torch

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KR9213	$33.90	$29.90	$26.90

Robot Kits

STEM - TOBBIE THE ROBOT II KIT

The excellent features of micro:bit has been comprehensively interfaced into this robot, making Tobbie II your coolest and cleverest friend. Using MakeCode or Python editors, coding and programming is made easy and turns Tobbie II into a fantastic learning option for your STEM curriculum.

- Batteries: Requires 4 x AAA batteries
- Dimensions: 176(H) x 135(W) x 135(D)mm (Assembled)
- micro:bit board must be purchased separately, see p25

STEM

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KR9260	$69.90	$62.90	$55.90

p.25 - micro:bit board

TOBBIE HEXAPOD ROBOT KIT

Tobbie is the new 6-legged robot that you can build. He can walk and spin in any direction, and will beep and flash his eyes while moving around.

- Follow me mode
- Explore mode
- Six legs for stable walking

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ9031	$56.90	$50.90	$44.90

CODEY ROCKY ROBOT KIT

This is a smart robot for beginners to learn coding and AI learning. Codey Rocky is an entry-level coding robot for STEAM (Science-Technology-Engineering-Arts-Mathematics) education. The combination of easy-to-use robotics hardware with visual programming software mBlock 5, gives all children the opportunity to take their first steps into the world of code and compose their first "Hello World!" statement at the same time as they explore their creativity. Codey Rocky is recommended for children 6 years and up. It's great family fun and can be used in schools by students and educators.

THE ROBOT COMES IN TWO PARTS:

- Codey is the detachable mainboard that holds all the magic. It includes more than 10 electronics modules that can be controlled via code
- Rocky is the car that lets you take Codey anywhere you want, so that your clever programs can be run everywhere

WHAT DO YOU LEARN?

- Beginning and advanced coding
- Logical thinking
- Creative expression
- AI and IoT principles

Check our website for a full outline of what you can do with the Codey Rocky Robot Kit.

STEM Makeblock Construct Your Dreams

Download on the App Store

GET IT ON Google Play

	Cat.	Qty 1+
Codey Rocky Robot Kit	KR9230	$169.00

MAKEBLOCK NEURON INVENTOR KIT

Makeblock have assembled the essential package to get you started. The Neuron Inventors Kit contains 8 programmable electronic building blocks including power, sound, light and sensors. The building blocks are connected via snap magnetic Pogo Pins making them durable and effortless to use. Combine this with the intuitive graphical programming turn your ideas into real, working gadgets.

Make a new invention in just 5 minutes. The Inventors Kit includes 10+ invention ideas and online video guides. Follow, then lead with your own creative ideas. The invention ideas have case materials to help build out the invention, so the gadget is fun and looks great. Some of the invention ideas for you to build are below. See website for full parts list.

- Telegraph
- DJ Machine
- Peace Maker
- Light Pallet
- Singing Glass
- Electric Guitar
- Noisy Robot
- Biting Dinosaur
- 3 Night Lamp
- Happy Rabbit
- Tail Wagging Cat Robot

Peace Maker Project

	Cat.	Qty 1+
Makeblock Neuron Inventor Kit	KJ9190	$229.00

MBOT BLUETOOTH® ROBOT KIT

mBot is an all-in-one solution to enjoy the hands-on experience of programming, electronics, and robotics. Working with mBlock inspired by Scratch 2.0, connecting with computers or smart devices via Bluetooth, this easy-to-assemble mBot provides infinite possibilities for you to learn STEM (Science, Technology, Engineering, Mathematics). Contains 38 assembly parts that can be assembled in 10 minutes and color-labeled RJ25 ports for convenient wiring, making sure more time can be spent on programming and creativity. mBot comes with a casing specially designed for protecting main control board. Installed with mini-programs to let you start learning straight away. Online manuals and courses are available to guide students and teachers. mBot can also be programmed with the Arduino® IDE - it uses the same chip as the Uno.

STEM Makeblock Construct Your Dreams

	Cat.	Qty 1+
mBot Bluetooth® Robot Kit	KR9200	$229.00

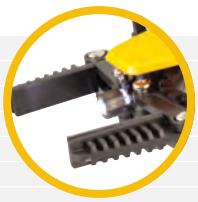
Robotic Construction Kits

ROBOT ARM KIT WITH CONTROLLER

STEM

This arm is a must for budding robot enthusiasts and operates just like the real thing. It is capable of 5 separate movements and can easily perform complex tasks. Individual control is available for opening and closing the illuminated gripper plus control of wrist, shoulder, elbow and base rotation. The arm is supplied as a kit of parts and makes an excellent project for anyone interested in robotic construction basic electrical connections.

- Suitable for ages 12+



SPECIFICATIONS	KJ8916
Max Lift Capacity	100g
Gripper Opening	43mm
Maximum Reach	320mm
Wrist Movement	120°
Elbow Movement	300°
Shoulder Movement	180°
Base Rotation	270°
Requires	4 x D cells
Base Dimensions	225(L) x 160(W) x 40(H)mm

USB INTERFACE KIT FOR KJ8916

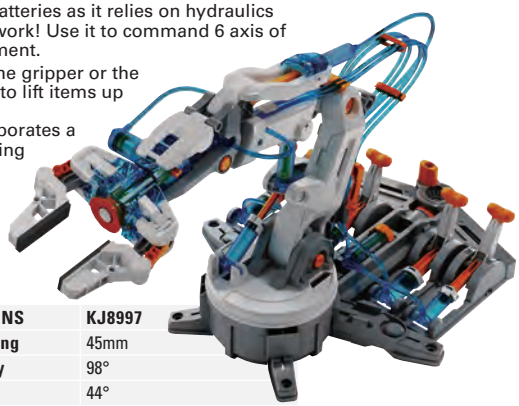
Add computer control via USB to your Robotic Arm. The kit includes everything you need - interface cable, pre-built PCB, enclosure and software for controlling function. You can use a keyboard or mouse to have real-time control of the robotic arm, or you can program, edit and load individual functions and movements, just like a real industrial robot. The commands are saved just like a normal computer file to be loaded and used later.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Robot Arm with Controller	KJ8916	$89.90	$80.90	$71.90
USB Interface Kit	KJ8917	$59.90	$53.90	$47.90

HYDRAULIC ROBOT ARM KIT

This Robot arm has no motors and does not require any batteries as it relies on hydraulics to do all the work! Use it to command 6 axis of varied movement.

- Use either the gripper or the suction cup to lift items up to 50g
- It also incorporates a built in braking system!



SPECIFICATIONS	KJ8997
Gripper Opening	45mm
Wrist Mobility	98°
Elbow Range	44°
Base Rotation	270°
Shoulder Motion	45°
Vertical Reach	400mm
Horizontal Reach	300mm
Base Diameter	100mm
Arm Length	260mm
Shoulder Height	190mm

STEM

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8997	$74.90	$67.40	$59.90

3 IN 1 ALL TERRAIN TRACKED ROBOT

There are a lot of parts to assemble in this kit, including the hard-wire remote control. You do, however end up with a fantastic piece of robotic gear. It is primarily a terrestrial 6 track (i.e. 3 separate tractor-crawlers each side) unit. The crawlers can be reconfigured to operate as grippers, or even as a forklift type mechanism. You will need lots of time to put this thing together, but it will be a pleasure as the 50 page instruction manual is superb with dozens of good old-fashioned line drawings, which are still the best for clarity. There is very little electronics (indeed none really) but a tremendous amount of mechanical assembly. Electric motors are included.

This kit could form the basis of a sophisticated robotic platform with the addition of feedback systems, much of which is in the Jaycar catalogue.

- It would make a fabulous gift for a very bright 13+ year old
- Batteries AA x 4 are extra
- Carton dimensions 40(W) x 30(D) x 90(L)mm

STEM

	Cat.	Qty 1+	Qty 3+	Qty 6+
3 in 1 All Terrain	KJ8918	$69.90	$62.90	$55.90

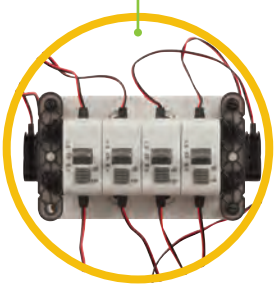
R/C MOTORISED ROBOT ARM KIT

NEW

Build the Robotic Arm™ from over 350 VEX® Robotics pieces! This construction kit challenges you to not only Build Genius™, but also build a fully functional VEX® Motorized Robotic Arm at the same time.

- Can pick up and relocate items
- Crane can rotate 360 degrees
- Includes two alternate builds
- STEM based construction kit
- 350+ snap together pieces
- Articulated grabber hand
- Ages 8 years and up

CONTROLS



STEM

	Cat.	Qty 1+
	KJ8995	$159.00

AI Smart Dog

PUPPY GO AI SMART DOG

NEW

Meet your child's newest best friend named Puppy Go, who is eagerly awaiting to play, entertain, sing, teach, bark, wag its tail and show off its tricks. Puppy Go is over 300mm long, rechargeable and has many bionic parts for life-like actions. Control actions and behaviours by using voice commands, such as "Roll over" or "go to sleep", by touching parts of its body or by using an app on your Android or iOS Smartphone, A built-in speaker provides music and sound effects, and also doubles as a Bluetooth speaker to play your child's favourite music. You may even see Puppy Go dance to the music. Many stunts are pre-programmed in the app or your child can code their own - it may be their first ever program! Just like a real pet, Puppy Go can be adopted and raised from puppy to an adult dog by providing virtual feed every day, etc. A USB cable is supplied in order to feed Puppy Go some puppy power from an available USB port. Recommended for ages 8+.

- Voice commands interaction
- Touch sensor interaction
- Can be used as Bluetooth Speaker
- Programming

SPECIFICATIONS	KR9234
Control Distance:	Up to 10m
Playing time:	45 mins
Dimensions:	320(L) x 220(W) x 220(H)mm

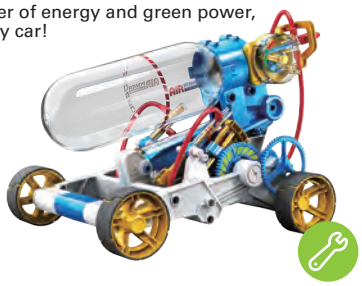
	Cat.	Qty 1+	Qty 3+
	KR9234	$199.00	$178.90

Air & Saltwater Education Kits

AIR POWER ENGINE CAR KIT

A green powered car! No batteries or motors required and it is not even subject to weather conditions like its solar powered counterparts. This futuristic car kit operates entirely using air, and it travels up to 80m on one single tank. This kit balances the fun and learning perfectly. A built-in hand pump with pressure meter is built in the car for easy operation and also as an indicator in measuring how volume of air is collected into the tank. Build this fun and educational kit and discover and learn about air pressure, pumps, valves, transfer of energy and green power, all that with the thrill of a speedy car!

- Dimensions: 190(L) x 160(W) x 290(H)mm
- Suitable for ages 10+



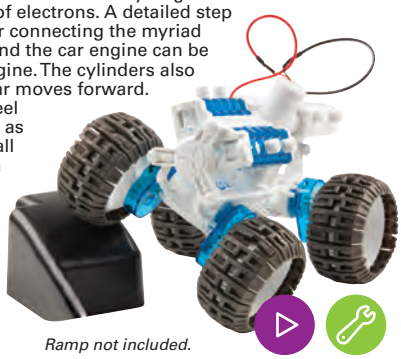
STEM

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8967	$59.90	$53.90	$47.90

SALT WATER FUEL CELL ENGINE CAR KIT

An entertaining educational kit demonstrating the concept of a salt powered automotive engine. It gives the next generation a look at alternative means of propelling cars of the future. It works with a combination of salt water and magnesium plates. When salt water is added it dissolves the magnesium to form hydrogen which is attracted to the cathode creating a flow of electrons. A detailed step by step assembly manual for connecting the myriad of components is included and the car engine can be configured as a V8 or flat engine. The cylinders also move up and down as the car moves forward. The finished vehicle is 4 wheel drive and the body will twist as it navigates its way over small pebbles and bumps. Watch a demonstration video on our website. You may require the use of a side cutter and flat/Phillips head screwdrivers.

- Assembly time: 3 hours
- Suitable for ages 8+
- Dimensions: 120(L) x 100(W) x 91(H)mm



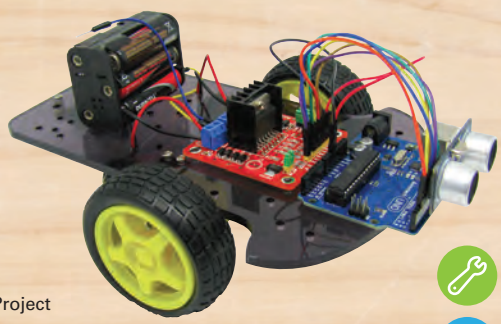
Ramp not included.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Salt Water Fuel Cell Engine Car Kit	KJ8960	$31.90	$28.70	$25.50
Spare Cartridge	KJ8961	$8.50	$7.65	$6.80

make it

Wall Dodging Robot

This little robot is fitted with an ultrasonic sensor, which it uses to help navigate its surroundings. When it detects an object in front of it, it backs up, turns a little and then continues on its way.



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-dodging-robot

Electronics Circuit Projects

SQUISHY CIRCUITS STANDARD KIT

NEW

Squishy Circuits uses conductive and insulating play dough to teach the basics of electrical circuits, a perfect blend of play and learning! The play dough kits, projects, and recipes teach problem solving and engineering concepts and inspire creativity and independent thinking.

The standard kit includes everything you need to get started with some more advanced Squishy Circuits projects that use LEDs, buzzers, and insulating dough! Check our website for full list of contents.

	Cat.	Qty 1+	Qty 3+
Standard Kit	KJ9350	$69.90	$62.90

SQUISHY CIRCUITS DELUXE KIT

NEW

Squishy Circuits uses conductive and insulating play dough to teach the basics of electrical circuits, a perfect blend of play and learning! The play dough kits, projects, and recipes teach problem solving and engineering concepts and inspire creativity and independent thinking.

The deluxe kit is our most complete Squishy Circuits kit. It comes with more items than the standard kit and comes with pre-made doughs so you can start circuit building right away! This kit also includes a deluxe battery holder which has a knob that allows your lights to blink and buzzers to beep at different speeds. Check our website for full list of contents.

	Cat.	Qty 1+	Qty 3+
Deluxe Kit	KJ9352	$149.00	$133.90

For next day delivery, or Click and Collect, see page 5

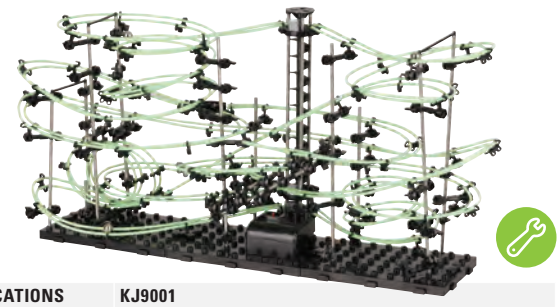
Construction Kits

SPACE RAIL CONSTRUCTION KIT - GLOW IN THE DARK

This is the big brother of the space rail kits, to make a HUGE 11m running track! The spiral "elevator" lifts the marbles up to the top of the rail, and gravity takes care of the rest. It's entertaining, and a great lesson in physics. If you don't get the angles of the track right, the marbles won't make the journey! Hours of entertainment, and virtually unlimited track possibilities! Once you get it right though, they'll keep going around and around until you stop them (usually to make changes to the track)!

Supplied with loads of pieces (488 in total) to make an 11m running track.

- Multi-fit baseboard
- Virtually unlimited design possibilities



SPECIFICATIONS	KJ9001
Battery	1 x 1.5V (C) Battery
Dimensions	710(L) x 210(W) x 350(H)mm, 1kg

	Cat.	Qty 1+	Qty 3+	Qty 6+
488 Pieces	KJ9001	$59.90	$53.90	$47.90

Learn About Green Power

SOLAR POWERED GRASSHOPPER KIT

Are your children fascinated with insects? This mini solar powered grasshopper is easy to assemble and will keep them occupied for hours. Runs from sunlight or by a 50W halogen bulb. Small enough to fit in the palm of their hand!

- Suitable for ages 8+
- Dimensions: Approx 40mm long

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT3751	$15.90	$14.30	$12.70

6 IN 1 SOLAR EDUCATIONAL ROBOT KIT

A hands on experience in the world of solar power. This kit includes all the parts needed to construct up to six different projects. Choose between a robot, helicopter, plane, windmill, water skies or even a three wheeler! Don't even worry about screws, everything snaps together for easy assembly and its all solar powered so no batteries are required. For the best results, use it in direct sunlight. For cloudy days use a 50W halogen light.

- Suitable for ages 10+

SPECIFICATIONS	KJ8936
Dimensions (Approx)	
Windmill	185 x 185 x 190mm
Helicopter	234mm
Water Skier	140 x 75 x 95mm
Three Wheeler	65 x 50 x 60mm
Robot	50 x 85 x 45mm
Plane	185 x 185 x 130mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ8936	$15.90	$14.30	$12.70

6-IN-1 SOLAR ROBOT

This fantastic DIY kit for the kids is super fun and captures the imagination of the young ones with everyday household material. Build wacky robots out of a coke can, a water bottle or wasted CDs, and even better, all of them can be powered by the sunlight using mini solar panels. A great toy to play, learn, and encourage awareness of the environment.

6 Robots to build:

- Drummer Robot
- Street Roller
- Flying Bird
- Bottle Yacht
- Walking Robot
- CD Racer
- Suitable for ages 10+
- No batteries required (can not included)

	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ8939	$22.90	$20.90	$17.90

1.5V 40MA HOBBY SOLAR PANEL

Experiment with solar energy - the energy source of the future. This hobby solar cell module is so small, it could easily be used in your next Arduino® project.

- Connection is via the solder pads on the back
- Dimensions: 30(L) x 21(W) 2.5(H)mm

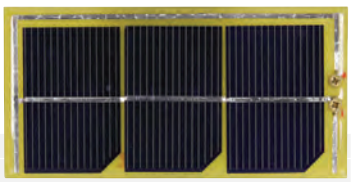
1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
1.5V 40mA	ZM9015	$5.90	$5.60	$5.30

HOBBY SOLAR MODULE

Ideal for powering solar projects, hobbies, model solar cars & educational applications.

- 3 cells per module, rated at 1.5V



SPECIFICATIONS	ZM9012
Open Circuit Voltage	1.5V
Short Circuit Current	500mA
Dimensions	148(L) x 74(W)mm
Weight	33g

	Cat.	Qty 1+	Qty 2+	Qty 4+
	ZM9012	$11.90	$11.30	$10.70

6-IN-1 SOLAR EDUCATIONAL KIT

A brilliant kit for any junior eco-scientist. You can build any one of six different projects from the parts in the kit, then make them work by solar power. No tools, soldering or glue required. All the parts snap together with spring terminals for the wiring. The instructions are excellent with extremely clear and concise illustrations detailing every step. The finished projects are solar powered, but can also be powered by the light from a household 50W halogen light.

Projects:

- Windmill
- Car
- Dog
- Plane
- Airboat
- Revolving Plane
- Suitable for ages 10+

THOUSANDS SOLD!

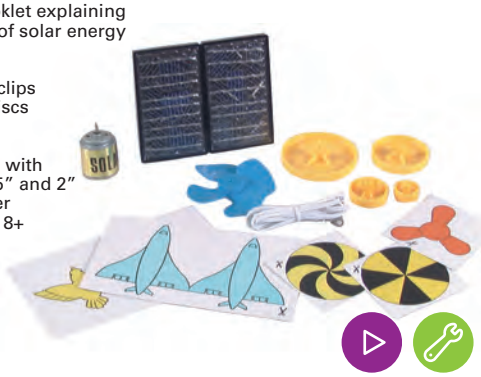
	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ8926	$18.90	$16.90	$14.90

SOLAR EDUCATIONAL KIT

Experiment with solar energy - the energy source of the future. Our solar educational kit lets you build your own solar models.

The kit comes complete with:

- Solar cell module
- Solar energy booklet explaining the why & hows of solar energy
- Small DC motor
- Screws and nuts
- Wire with motor clips
- Colour spinner discs
- Paper aeroplane and bird models
- Plastic turntables with 4 sizes, 5/8", 1", 1.5" and 2"
- Plastic fan spinner
- Suitable for ages 8+



	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ6690	$23.90	$21.50	$19.00

Learn About Green Power CONTINUED

"T4" TRANSFORMING SOLAR POWERED ROBOT KIT

The basis of this kit is two moulded 'frames' of component parts reminiscent of a plastic model aeroplane kit - about 50 parts! It also has a small (40 x 25mm) solar panel, a tiny electric motor, gears, pinions, etc. It also includes decals. It can 'transform' between a T-Rex or Rhino beetle with moving legs and jaw, Robot with walking legs and moving wheels, and a futuristic miners drilling machine with moving drilling bit and wheels. You will probably need small diagonal pliers to cut out and de-flash all the plastic parts from the frame.

- Robot stands about 100mm tall
- Detailed 34 page assembly manual is also included
- Suitable for ages 8+

	Cat.	Qty 1+	Qty 3+	Qty 6+
4 in 1	KJ8965	$31.90	$28.70	$25.50

12 IN 1 SOLAR HYDRAULIC ROBOT KIT

Here's a kit that's easy to build, and a great way to learn about solar power and hydarulics. There's 12 different models to build, including a crocodile, T-Rex, elephant, monkey, ostrich, scorpion, excavator and forklift.

- 12 different projects to build and rebuild
- Solar electric and hydraulic power
- Each model has many different animation features, making for fascinating play time

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ9030	$45.90	$40.90	$35.90

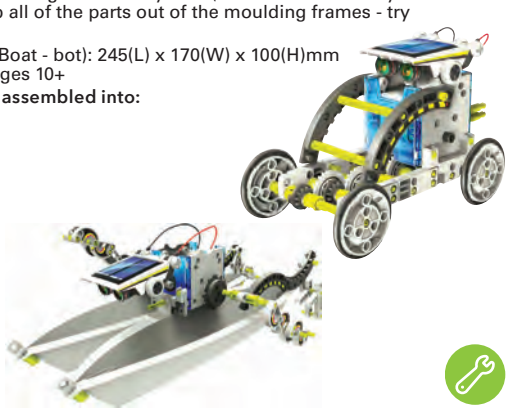
SOLAR POWERED ROBOT KIT - 14 IN 1 ROBOT KIT

This kit has so many included parts we don't have the time to count them, certainly at least 100 or more. Notable are a solar panel, solar powered electric motor boat hull components, gears etc. This kit can be transformed into 14 different functional robots, some of which admittedly are whimsical, but the kit itself is a fantastic learning experience: Mechanical, educational, scientific & solar physics skills are exercised. Best of all the kit comes with an assembly manual that is LEGO® like in the clarity of description. The manual itself runs to over 80 pages. This kit represents sensational value and is perfect for bright kids 10+ years. (A side cutter is really required to clip all of the parts out of the moulding frames - try TH1897).

- Dimensions (Boat - bot): 245(L) x 170(W) x 100(H)mm
- Suitable for ages 10+

This kit can be assembled into:

- Turtle-bot
- Beetle-bot
- Boat-bot
- Walker-bot
- Dog-bot
- Wheel-bot
- Row-bot
- Roly Poly-bot
- Auto-bot
- Slither-bot
- Surf-bot
- Zombie-bot
- Crab-bot
- Quadro-bot

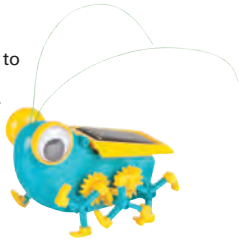


	Cat.	Qty 1+	Qty 3+	Qty 6+
14 in 1	KJ8966	$59.90	$53.90	$47.90

SOLAR BUG KIT

Cute as a button and easy to build, our bug loves to play in the sun. Watch the gears turn to make the legs work. Great for learning about construction, solar, mechanics and electricity.

- Easy to assemble kit teaches about renewable energy
- Easy snap together construction
- Sidecutters needed to trim parts
- Play in the sun to learn about solar power



	Cat.	Qty 1+	Qty 3+	Qty 6+
Solar Bug Kit	KJ9027	$22.90	$20.90	$17.90

SOLAR ROVER KIT

At night, Solar Rover rests, but during the day, he's out exploring, with his radar dish scanning the landscape as he prowls on his six wheels. Learn about construction, solar, gears and be inspired to reach for the stars! More advanced than KJ9027 Solar Bug, great for kids interested in space.

- Easy snap together construction
- Sidecutters needed to trim parts
- Play in the sun to learn about solar power
- Transparent windows to view moving parts

	Cat.	Qty 1+	Qty 3+	Qty 6+
Solar Rover Kit	KJ9026	$28.90	$25.90	$22.90

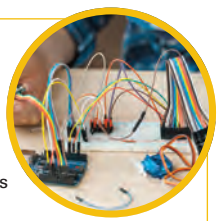
FRILLED LIZARD ROBOT KIT WITH IR SENSOR

A super smart frilled lizard with artificial intelligence. It has an infrared sensor that is programmed to 'escape' or 'follow-me'. Once the infrared sensor is activated in the 'escape' mode the robot will automatically act shocked by spreading its frill, dropping its jaw, illuminates its bicolour LED eyes and will scamper away from you until it reaches a safe place. If the infrared sensor is switched to the 'follow-me' mode using the 2 way function switch, then the robot will assess danger by bluffing the attacker (unfurling and shaking its frill). When the robot does not sense danger it will proceed to follow you like a pet lizard.

- Interactive artificial intelligence (AI)
- Two funway modes
- Infrared sensor
- LED illuminated eyes
- Requires 4 x AAA batteries
- Dimensions: 370mm long
- Suitable for ages 10+

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8968	$69.90	$62.90	$55.90

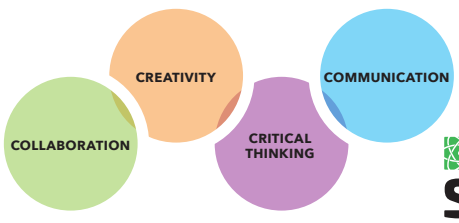
what is STEM?



STEM, or Science, Technology, Engineering and Mathematics is a curriculum based on the idea of educating students in these four specific disciplines using an interdisciplinary and applied approach. Each has a critical role to play but also enables discovery and progress in other fields.

THE STUDENT EXPERIENCE

Through participation in STEM opportunities, youth learn skills like:



STEM

For next day delivery, or Click and Collect, see page 5

Science Kits

SCIENCE KIT - DINOSAUR DIG KIT

Journey to the Prehistoric Era and uncover genuine dinosaur fossils! This hands-on kit includes genuine specimens, custom digging tools and learning guide. Age 8+

Cat.	Qty 1+
KJ9033	$33.90

SCIENCE KIT - GEMSTONE DIG

Dig up 3 genuine gemstones! This hands-on kit includes genuine specimens, custom digging tools and learning guide. Age 8+

Cat.	Qty 1+
KJ9039	$33.90

SCIENCE KIT - SHARK TOOTH DIG

Excavate 3 genuine shark teeth fossils from the ocean's deadliest predators! This hands-on kit includes genuine specimens, custom digging tools and learning guide. Age 8+

Cat.	Qty 1+
KJ9038	$33.90

SCIENCE KIT - BUG EXCAVATION KIT

Dig up and explore 3 amazing insects! Each specimen is perfectly preserved in transparent acrylic, so kids will be able to study their bugs from all angles. This hands-on kit includes genuine specimens, custom digging tools and learning guide. Age 8+

Cat.	Qty 1+
KJ9040	$33.90

SCIENCE KIT - GLOW IN THE SLIME

Make your own glow-in-the-dark slime and learn all about the fascinating organisms known as slime molds! Kids will become chemists - concocting slime, learning about slime molds, and exploring where slime occurs naturally in nature. Age 8+

	Cat.	Qty 1+
Green	KJ9034	$33.90
Blue	KJ9042	$33.90
Yellow	KJ9037	$33.90

SCIENCE KIT - GLOW IN THE DARK CRYSTAL GREEN

Grow amazing glowing crystals in your own home! Includes a learning guide packed full of interesting crystal facts and a real fluorite specimen! Age 8+

Cat.	Qty 1+
KJ9041	$33.90

SCIENCE KIT - VOLCANO KIT

Cast your own volcano, paint it and even make it erupt! With the included learning guide, learn about tectonic plates, earthquakes, volcano formation and volcanic rocks, as well as many interesting facts designed to promote a love of geology and science. Age 8+

Cat.	Qty 1+
KJ9036	$33.90

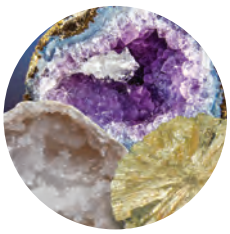
click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Learn About Science

SCIENCE KIT - BREAK OPEN 2 REAL GEODES

Geology doesn't get more exciting than breaking open rocks and finding crystal treasures! This hands-on kit includes premium geodes, safety goggles, a geode display stand, magnifying glass and learning guide.
Age 8+

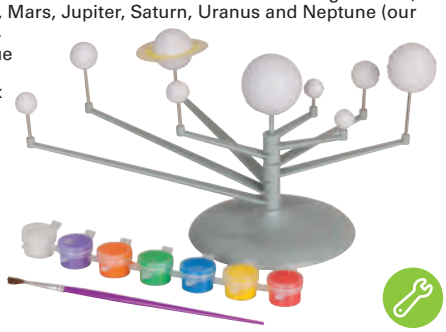


	Cat.	Qty 1+
	KJ9035	$33.90

PLANETARIUM EDUCATIONAL KIT

What better way to learn about our own Solar System than leaving your own marks on each of the planets? Assemble your own planetarium model, paint it and add highlights to create a glow effect. Watch the 30cm model glow in the dark - it's out of this world! Featuring the Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (our condolences to Pluto).

- Snap to build, no glue required at all
- Dimensions: 220(L) x 170(H) x 60(D)mm
- Suitable for ages 3+

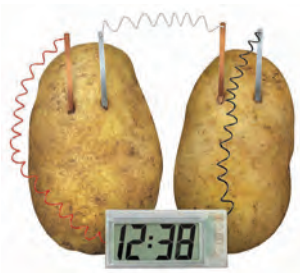


	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8994	$11.90	$10.70	$9.50

POTATO CLOCK

You can generate enough electricity to run a digital clock by plugging electrodes into common potatoes! An amazing chemical experiment which also works with tomatoes, lemons, apples - even soft drink or beer!
All parts (except fruit/veg) supplied including:

- Highly accurate digital clock module
- Metal electrodes, wire
- Instructions and fluid beakers
- Perfectly safe for children and highly educational. (Do not eat fruit/veg after using as batteries)
- Clock dimensions: 65(W) x 30(H) x 12(D)mm
- Suitable for ages: 10+



	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8937	$15.90	$14.30	$12.70

CARDBOARD RADIO CONSTRUCTION KIT

Build a working cardboard radio with just a screwdriver. Easy to assemble and sounds great, no previous electronics knowledge needed. Included radio board is based around a modern digital tuning IC and is great for building into other projects.

- AM/FM Radio with AUX input
- Volume and tuning controls
- No soldering needed, all fasteners included
- Extendable antenna
- 3 x AA batteries required (not included)

	Cat.	Qty 1+	Qty 3+	Qty 6+
Cardboard Radio Construction Kit	KJ9021	$28.90	$25.90	$22.90

CROOKES RADIOMETER

A beautiful desk gadget or serious educational toy, the Crooke's Radiometer demonstrates that light has energy, and will turn its vanes even when illuminated by a torch. Despite many people thinking that the motion is caused by the impact of photons on the vanes, the Radiometer in fact operates as a heat engine, driven by the different temperatures of the black and silver vanes.

- One piece glass body with metal vanes
- Use as simple desk ornament
- Great for physics demonstrations

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GG2108	$69.90	$62.90	$55.90

Microscope

5MP USB 2.0 DIGITAL MICROSCOPE WITH PROFESSIONAL STAND

1 YEAR WARRANTY

A USB microscope with a simple but incredibly useful stand that allows you to make fine adjustments to the vertical height of the microscope and swivel the scope arm around a 360 degree range. This permits a greater level of viewing accuracy and stability. The microscope can be easily removed for the stand for situations which demand it. On either side of the stand there are two metal holders to lock your object in place and a printed ruler to help you get an approximate feel for the length of objects. The optics built into this microscope are excellent. The sharpness of texture on magnified objects is incredible to look at you will spend hours searching for things to magnify (check out a full resolution 5MP capture on our website).

It comes with a great piece of software for capturing 5MP (2592x1944) res JPGs, BMPs, TIFs or PNGs and 1280x960 pixel AVI files.

Excellent for educational purposes or a myriad of practical applications such as technicians, jewellers, laboratory work, and much more.

SPECIFICATIONS	QC3199
Image Sensor	5MP
Focus Range	Manual focus from 10mm to 150mm
Still Image Resolution	2592x1944, 2048x1536, 1600x1200, 1280x960 pixels
Video Capture Resolution	1280x960
Light Source	8 x LEDs with adjustable brightness
Magnification Ratio	10x, 300x (at 5MP res)
Power Source	USB
Compatibility	WinXP/Vista/7/8, Mac 10.6-10.8
Bundled Software	Microcapture Pro with measurement function
Dimensions	Microscope: 110(L) x 33(Dia)mm, Stand: 165(H) x 165(L) x118(W)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
10x, 300x	QC3199	$229.00	$205.95	$182.95

zip

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Available for in-store and online purchases, check out www.jaycar.co.nz/zippay for more information.

For next day delivery, or Click and Collect, see page 5

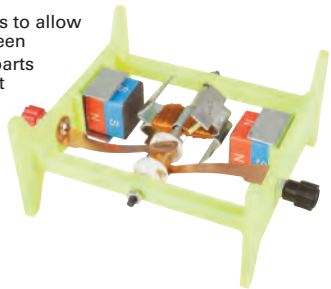
Electronic & Electrical Projects for Kids

MINI ELECTRIC MOTOR EXPERIMENT

This simple motor model demonstrates the basics of how the magnets, armature and commutator work together in an electric motor to cause rotation. The banana plugs allow simple connection of a power source.

Removeable and reversible magnets to allow the effects of magnetic field to be seen

- Open structure to see all moving parts
- Magnetic poles marked on magnet
- Removeable armature



Cat.	Qty 1+	Qty 3+	Qty 6+
KJ9032	$22.90	$20.90	$17.90

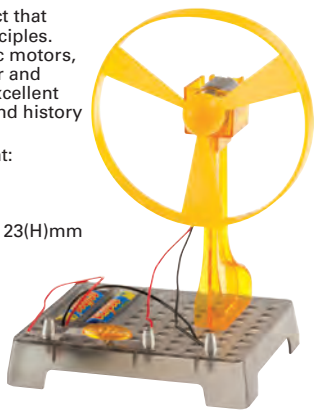
12 IN 1 ELECTRICAL EXPERIMENT KIT

12 different experiments to construct that demonstrate various electronic principles. Learn about static electricity, electric motors, resistors, diodes, lights, solar power and more. Kit included a manual with excellent information describing the theory and history associated with each experiment.

- Assembly time for each experiment: Approximately 10 mins
- Requires 2 x AA batteries
- Suitable for ages 8+
- Base dimensions: 120(L) x 99(W) x 23(H)mm

Activities:

- Static Electricity
- Conductors and insulators
- Make a fan
- Resistor
- Diode
- Make a light
- Make a Morse code machine
- Light control alarm
- Make a bell
- Make an electromagnet
- Make a motor
- Solar power cell



Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8919	$34.90	$31.90	$27.90

education club!

SPECIAL CLUB FOR STEM AND OTHER DISCIPLINE EDUCATORS

Are you a STEM educator looking for inspiration in electronics for your classroom?

Looking for electronics resources for your school?

Need electronics kits for your students in bulk?

Is retail pricing not an option for your school? Or is specialised pricing important to your school?

BENEFITS:

- **Specialised pricing on educational products**
- **Exclusive access to a STEM projects database designed specifically for educators**
- **Regular promotional offers**
- **Invitations to attend special educator workshops held in-store or in-class**
- **Early bird updates on new products arriving in the STEM and education technology range to allow time to plan lesson content**

WE ARE HERE TO HELP!

Jaycar Electronics is a one stop shop for all your electronics needs with 110+ stores located across Australia and New Zealand.

Clock Making

MAKE YOUR OWN CLOCK KIT

This educational clock is designed to stimulate your child's curiosity about the concept of time. The brightly coloured parts are easy to assemble and most children will require little or no parental assistance.

- Includes a wind-up pendulum based mechanism
- No batteries required!
- Suitable for ages 6+
- Dimensions: 195(Dia)mm

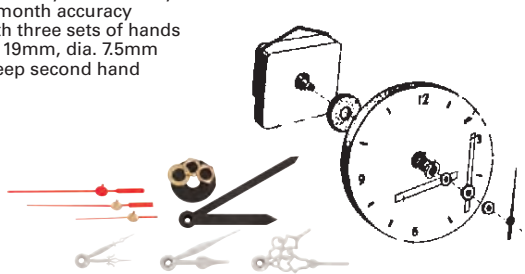
Cat.	Qty 1+	Qty 3+	Qty 6+
KJ8996	$19.90	$17.90	$15.90

QUARTZ CLOCK MOVEMENT

MAKE A CUSTOM CLOCK OR REPAIR AN OLD ONE

This is a standard hour/minute/sweep second movement found in almost all electric clocks worldwide. Very reliable. Standard nut bushing mount. We have sold 10's of thousands of these and, as far as we can tell, not one has come back.

- Very compact 56 x 56 x 15mm
- Self starting one second stepping motor
- Uses 1 x AA battery that lasts 1 year
- ±15 second/month accuracy
- Supplied with three sets of hands
- Shaft length 19mm, dia. 7.5mm
- Includes sweep second hand

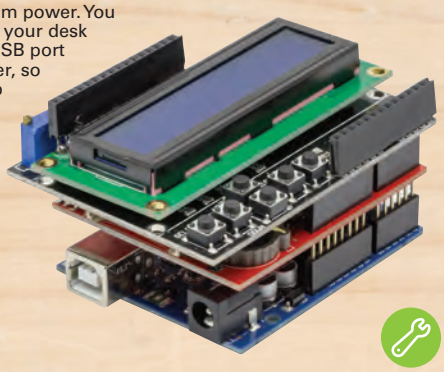


Cat.	Qty 1+	Qty 3+	Qty 6+
XC0100	$19.90	$17.90	$15.90

make it

LCD Arduino® Clock

This is an easy project to assemble- just one main board and two shields, but gives a fully functional, easy to read clock display which retains the time, even when disconnected from power. You could leave it on your desk plugged into a USB port on your computer, so that it powers up whenever the computer is on.



Finished Project

See step-by-step instructions at: jaycar.co.nz/diy-arduino-clock-uno

where's my local Jaycar store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

snap-on projects & kits:

These kits allow children 6 years and older to learn about electronics whilst having fun. All of the brightly coloured parts simply snap together without any need for screws or soldering. The parts can be easily taken apart to be reused for other experiments over and over again.

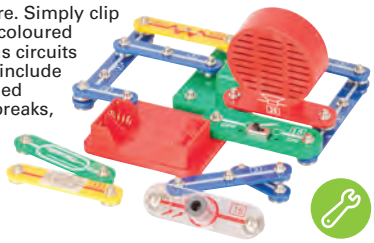
- Suitable for ages 6+
- No tools or soldering required
- Powered by AA batteries (Sold separately)
- Include coloured instruction manuals

STEM

BURGLAR ALARM SNAP-ON ELECTRONIC PROJECT KIT

Create burglar alarms and more. Simply clip the clearly marked and bright coloured pieces together to learn various circuits designs. Some of the projects include anti-theft alarm that fires themed warning sounds when circuit breaks, door/window alarm using a dry reed switch and even a rain alarm.

- Requires 2 x AA batteries

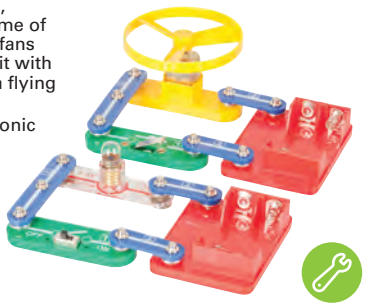


	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8974	$17.90	$15.90	$13.90

8-IN-1 SNAP-ON ELECTRONIC PROJECT KIT

Various experiments on circuits, motors, switches and more. Some of the projects include lamps and fans in both series and parallel circuit with variable controls; there is also a flying saucer project that really flies.

- Learn whilst building 14 electronic experiments
- Requires 2 x AA batteries

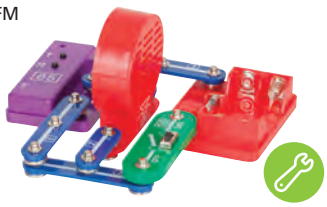


	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8976	$17.90	$15.90	$14.30

FM RADIO SNAP-ON ELECTRONIC PROJECT KIT

Create a fully functional selectable FM radio with this simple snap on kit.

- Requires 2 x AA batteries



	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8978	$16.90	$14.90	$13.90

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Visit Our Online Store: www.jaycar.co.nz

ELECTRONIC PROJECT SNAP-ON KIT WITH 80 EXPERIMENTS

Features 80 projects which demonstrate various theories of electronics. A great educational tool for primary age school students that will stimulate their neural pathways as they read and construct an array of devices that use circuits, switches, electric motors, LEDs and more. Some of the projects include magnets or switch controlled electric fans, switch controlled LEDs, switching multi-directional electric motor, sound effect machine that will output machine gun fire, police car siren and much more.

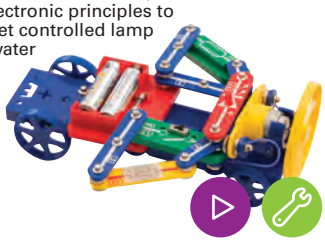
- Learn whilst building over 80 electronic experiments
- Requires 2 x AA batteries
- Package dimensions: 265(L) x 205(W) x 35(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8970	$29.90	$26.90	$23.90

CAR & BOAT SNAP-ON ELECTRONIC PROJECT KIT WITH 50 EXPERIMENTS

Simple snap together project kit allows you to create a car or a boat that will move! Bright colour pieces and no need to screw, or use adhesives. Great little kit for teaching simple electronic principles to eager minds. Projects include magnet controlled lamp or fan, air propelled car, and underwater or air propelled boat.

- Learn whilst building over 50 electronic experiments
- Requires 2 x AA batteries
- Suitable for ages 6+
- Package dimensions: 460(L) x 330(W) x 40(D)mm



	Cat.	Qty 1+	Qty 3+
	KJ8972	$44.90	$40.40

698-IN-1 SNAP ON ELECTRONIC PROJECT KIT

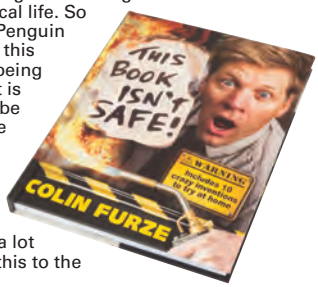
This massive experimenters kit guides you through 698 different experiments. Yes, that's correct - 698 different experiments! It uses a unique baseboard and snap-together system so you can explore the world of electronic circuits without any tools, soldering, or experience! Build a light sensitive alarm clock, an electronic birthday candle, an electronic organ, and so much more. All using low voltage battery power, so it's safe for ages 8+. Requires 4 x AA batteries, not supplied.

- Snap together - no tools required
- Safe for 8+
- 698 different experiments
- Battery: 4 x AA batteries (not included)
- Weight: 860g
- Dimensions: 460(L) x 301(W) x 55(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ8985	$89.90	$80.90	$71.90

THIS BOOK ISN`T SAFE - COLIN FURZE

In the words of YouTuber and Author Colin Furze: In my 10 years making crazy inventions and madcap projects on the internet I've been inspiring people young and old to get into engineering and take up a more practical life. So with this in mind I've teamed up with Penguin to create a book for kids that will carry this inspiration and help them work up to being confident with tools and materials that is the foundation of what I do. There will be 10 projects that get progressively more challenging for you to create at home that are low cost and need only basic tools. As well as these DIY projects the book will cover some of my favourite inventions with pictures and cartoons so even those that don't like a lot of words (my younger self) can enjoy this to the max. 192 pages.



	Cat.	Qty 1+
This Book Isn`t Safe - Colin Furze	BM7146	$33.90

For next day delivery, or Click and Collect, see page 5

Short Circuits volume 1 - second edition:

With Short Circuits Volume 1, we give the option of buying the book on its own, or together with the accompanying kit that contains the components for each of the 20-odd projects described in the book. Some of the exciting projects include a Police Siren, Electronic Organ, Sound Effects Unit, Light Chaser and a Solar Powered Radio (an inexpensive solar panel is optional and available separately). Of course, many more projects are included! Remember, no prior knowledge of electronics is needed and the projects are totally safe. This volume will teach constructors everything they need to get started in electronics and is suitable for ages 8+. Kits contain small parts.

- Circuit diagrams included for each project
- Safe 6 volt system
- Techtalk discusses circuit operation and is written in a clear, easy to understand language
- Component layout on the special breadboard is clearly illustrated for each project
- Fun characters introduce each project, explaining the projects use

SHORT CIRCUITS - VOLUME 1

BOOK - SECOND EDITION

Book only.

- Soft cover - 96 pages
- 205 x 275mm

PROJECT KIT

The complete kit of parts available separately. This includes plastic baseboard, spring connectors and all components needed to complete every project in the book. No instructions are supplied with this kit as they come in the book which is available separately.

BOOK & PROJECT KIT

Apart from the book, we supply the baseboard, plenty of spring terminals and ALL the components required to build every project in the book, INCLUDING the bonus projects!

- Additional hookup wire can be purchased (WH3025)
- Optional Solar Cell Power Supply for project #16 is extra Cat ZM9020 (batteries are also extra)
- 6VDC (4 X AA)

MADE IN

	Cat.	Qty 1+	Qty 3+
Book Only	BJ8502	$11.90	
Project Kit Only	KJ8504	$45.90	$40.90
Book & Project Kit	KJ8502	$49.90	$44.90

GRAB YOUR FREE PDF DOWNLOAD:
www.jaycar.co.nz/short-circuits

Some of the exciting projects that you can build from this book include:

- **Short circuit tester**
- **Police siren**
- **Sound effects unit**
- **Solar powered radio**
- **Computer type circuits**
- **Magic Eye light alarm**
- **Electronic organ**
- **Light chaser**
- **3 types of transistor amps**
- **And many many more**

Short Circuits volume 2:

Once constructors have mastered the art of assembling a circuit with springs they will want to tackle projects that are more complex. The benefit of spring termination falls away once they get into projects that have over, say, 20 parts. In addition to this, projects that work on radio frequency, or RF for short, don't like springs as they start to act like little antennae all over the place! So it's time to graduate to the heart of modern electronics - the printed circuit board. This simple device fulfils the function of mounting board & circuit wiring in one. The critical element of success in printed circuit board - or PCB for short - assembly is good soldering. Soldering is not for 8 year olds but its fine if they are older or are under adult supervision. In Short Circuits II we teach the reader how to solder. We teach you a lot more as well:

- How to use a Multimeter
- What tools will be needed.
- What sort of workspace is needed
- How the circuit works (Tech talk)
- What to do next
- Making the circuit work in the real world

p.372
9V battery to complete these projects. SB2423

SHORT CIRCUITS - VOLUME 2

Once constructors have the basic skills and knowledge either from a School Design and Technology course, or tackling Short Circuits Vol 1, you can now have some real fun! With this book (and associated project packs available separately - see following pages) they can make such things as a mini strobe light, police siren, mini organ, a couple of powerful radio transmitters, an FM radio - even a 'Knight Rider' scanner!!

All components are fully described and explained, along with tutorials on soldering iron and multimeter use.
All projects are safe and battery powered.

- Soft cover - full colour 148 pages
- 205 x 275mm

MADE IN

Cat.	Qty 1+
BJ8504	$15.90

Short Circuits volume 3 second edition:

Like our Volumes 1 & 2 book, Short Circuits Volume 3 is sold independently to each of the 30-odd projects. Some of the projects constructors will build include a Guitar Sustain Unit, a Universal Timer, Car Alarm, Two Lamp Flasher plus many more! There's even a project that demonstrates how constructors can use your computer to interface to the real world via a computer's parallel port. Building the projects described in Volume 3 will provide constructors with the confidence needed to tackle more complex projects, such as those described in the various electronics hobby magazines.

- Step by step instructions show you how to assemble each project
- Techtalk explains the operation of each circuit in detail, to help constructors gain a thorough knowledge of the "Building Blocks" used in circuit design
- "What To Do Next" shows constructors how to modify or further improve your project
- Basic circuit theory is provided to increase constructors level of understanding

SHORT CIRCUITS - VOLUME 3

SECOND EDITION

Each project contains a full technical description, with experimental changes to each circuit also explained. After constructors have built any or all of the described projects, there is no reason why they would not be able to successfully tackle any of the construction projects published in the electronics magazines. This book will end up giving them the knowledge and skill that will elevate them into a fully fledged constructor!

- Soft cover - full colour 128 pages
- 205 x 275mm

MADE IN

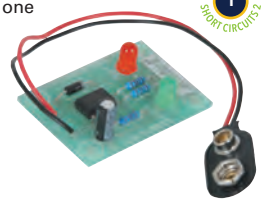
Cat.	Qty 1+
BJ8505	$17.90

Short Circuits 2 Projects

SC2 PROJECT - RED/GREEN FLASHER

PROJECT 1 SHORT CIRCUITS 2

It flashes two LEDs (light emitting diodes) - one red and the other green - alternately, a bit like the light on a police car. A great way to learn how a 555 Timer IC works.



- PCB & all parts supplied
- Requires 9V battery
- Instructions NOT included, See KJ8201 or our full colour project book BJ8504
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 43 x 30mm	KJ8200	$9.90	$8.90
Instructions	KJ8201	$3.50	

SC2 PROJECT - COUNTDOWN TIMER

PROJECT 2 SHORT CIRCUITS 2

This neat project enables you to dial a time you want to elapse before you want something to happen, say the exposure of a camera shutter or an electrically operated door to stay open. At the end of the timed period (seconds to many minutes) a relay is energized which can switch something on or off. PCB and all parts supplied, including relay.

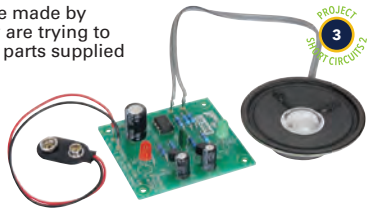
- Requires 9V battery
- Instructions NOT included. See KJ8203 or our full colour project book BJ8504
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 47mm	KJ8202	$17.90	$15.90
Instructions	KJ8203	$3.50	

SC2 PROJECT - HEE-HAW SIREN WITH FLASHING LIGHT

PROJECT 3 SHORT CIRCUITS 2

This project will make the noise made by emergency vehicles when they are trying to get through traffic. PCB and all parts supplied including flashing LED.



- Requires 9V battery
- Instructions NOT included. See KJ8205 or our full colour project book BJ8504
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 57 x 51mm	KJ8204	$13.90	$12.90
Instructions	KJ8205	$3.50	

SC2 PROJECT - MINI STROBE LIGHT

PROJECT 4 SHORT CIRCUITS 2

No, this unit won't fill a disco with blinding white light. Those things are dangerous and run straight off 240V. This one runs off a 9V battery and gives a surprisingly intense white light especially in darkness. Uses state-of-the-art LED. PCB and parts including LED supplied.

- Requires 9V battery
- Instructions NOT included. See KJ8207 or our full colour project book BJ8504
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 45mm	KJ8206	$22.90	$20.90
Instructions	KJ8207	$3.50	

SC2 PROJECT - MINI STROBE LIGHT

PROJECT 5 SHORT CIRCUITS 2

This project allows you to turn things on or off simply by touching a small sensor pa with your finger. This could include operating an alarm, water pump, hi-fi speakers, or any other low voltage gadget.

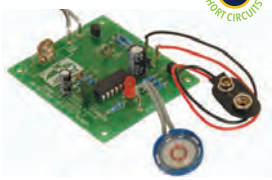
- PCBs & all parts including the relay supplied
- Requires 9V battery
- Instructions NOT included. See KJ8209 or our full colour project book BJ8504
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ8208	$17.90	$15.90
Instructions	KJ8209	$3.50	

SC2 PROJECT - DROUGHT ALARM

PROJECT 6 SHORT CIRCUITS 2

Well, not really a big drought. This will test the soil moisture of a favourite pot plant and an alarm will sound if the soil gets too dry.



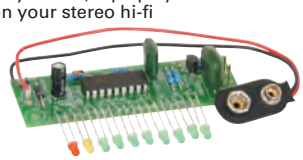
- Instructions NOT included. See KJ8211 or our full colour project book BJ8504
- PCB, speaker & components
- Requires 9V battery
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ8210	$17.90	$15.90
Instructions	KJ8211	$3.50	

SC2 PROJECT - AUDIO LEVEL DISPLAY

PROJECT 7 SHORT CIRCUITS 2

Make your own fancy volume level display you see on DJ mixing desks where the columns of light dance up and down with the music. Connect it to the output of your CD, tape player or radio. Build two of them for displays on your stereo hi-fi system.



- PCB and all parts supplied
- Requires 9V battery (not included)
- Instructions NOT included. See KJ8213 or our full colour project book BJ8504
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ8212	$17.90	$15.90
Instructions	KJ8213	$3.50	

SC2 PROJECT - ELECTRONIC ORGAN

PROJECT 8 SHORT CIRCUITS 2

You can play simple tunes easily once you have built this project! The organ keyboard is actually part of the printed circuit board. It even has vibrato for extra realism. Includes PCB and all board components.

- Requires 9V battery
- Instructions NOT included. See KJ8215 or our full colour project book BJ8504
- Recommended Box - UB1 HB6011 $5.50

	Cat.	Qty 1+	Qty 3+
PCB: 133 x 31mm, 133 x 51mm	KJ8214	$28.90	$25.90
Instructions	KJ8215	$3.50	

SC2 PROJECT - NO BRAINER AMPLIFIER

This amp is so easy to build, it's a no brainer! It will, however, give a powerful output to bring your MP3 player or sound card alive! Speaker supplied. Two required for stereo. PCB and all relevant parts included.

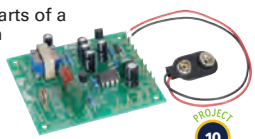
PROJECT 9 SHORT CIRCUITS 2

- Requires 9V battery
- Instructions NOT included. See KJ8217 or our full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 64 x 57mm	KJ8216	$17.90	$15.90
Instructions	KJ8217	$3.50	

SC2 PROJECT - BEAM ME UP SCOTTY SIMPLE INTERCOM

Enables you to talk (i.e. not shout) between parts of a house, or a house and a garage. You can even leave it on to monitor a baby's room. All parts supplied including PCB and 6-metres of connecting wire. Requires 9V battery.



PROJECT 10 SHORT CIRCUITS 2

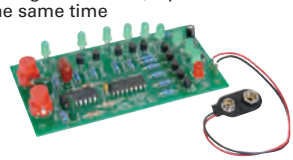
- Instructions NOT included. See KJ8219 or our full colour project book BJ8504
- Recommended Box - UB3 x3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ8218	$33.90	$29.90
Instructions	KJ8219	$3.50	

SC2 PROJECT - SKEET SHOOT GAME

PROJECT 11 SHORT CIRCUITS 2

Here's a fun way to test your hand-eye coordination. The game sends a burst-of-light 'skeet' up along a string of ten LEDs, try to 'hit' it by pressing the FIRE button at the same time as it reaches the red LED.



- Instructions NOT included. See KJ8221 or our full colour project book BJ8504
- PCB, LEDs and components
- Requires 9V battery*
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 107 x 57mm	KJ8220	$21.90	$19.30
Instructions	KJ8221	$3.50	

For next day delivery, or Click and Collect, see page 5

Short Circuits 2 Projects CONTINUED

SC2 PROJECT - SIMPLE FM BUG

PROJECT 12 SHORT CIRCUITS 2

Small portable FM microphone. Works surprisingly well. Use it as a baby minder/ monitor as well. PCB and all parts supplied.

- Requires 9V battery
- Instructions NOT included
- See KJ8231 for individual instructions or full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 59 x 41mm	KJ8230	$17.90	$15.90
Instructions	KJ8231	$3.50	

SC2 PROJECT - METRONOME

PROJECT 13 SHORT CIRCUITS 2

This neat little metronome does everything that a traditional metronome does. It produces an adjustable 'tick' sound to help you play your music at just the right tempo. It also flashes a LED once per bar, to help you get the music's rhythm right as well.

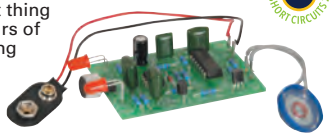
- PCB, speaker and all parts supplied including knobs
- Requires 9V battery
- Instructions NOT included
- See KJ8233 for individual instructions or full colour project book BJ8504
- Recommended Box - UB1 HB6011 $5.50

	Cat.	Qty 1+	Qty 3+
PCB: 82 x 82mm	KJ8232	$22.90	$20.90
Instructions	KJ8233	$3.50	

SC2 PROJECT - JIMINY! WHAT'S THAT CRICKET NOISE?

PROJECT 14 SHORT CIRCUITS 2

This fun project makes the distinct sound of a cricket when triggered by a hidden microphone. Someone walks into a room, says something and the next thing this loud cricket starts to chirp! Hours of fun. PCB and all other parts including microphone supplied.



- Requires 9V battery
- Instructions NOT included
- See KJ8225 for individual instructions or full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 45mm	KJ8224	$17.90	$15.90
Instructions	KJ8225	$3.50	

SC2 PROJECT - BIONIC EAR

PROJECT 15 SHORT CIRCUITS 2

This project enables you to listen to a conversation (or a bird in a tree, etc) beyond what you would normally hear. It uses the principle of a directional microphone. PCB and parts supplied. A plastic bowl or similar is required for the reflector.

- Requires 9V battery
- Instructions NOT included
- See KJ8227 for individual instructions or full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ8226	$21.90	$19.30
Instructions	KJ8227	$3.50	

SC2 PROJECT - CASINO! ELECTRONIC DICE

PROJECT 16 SHORT CIRCUITS 2

Well dice is really plural and this is just one dice a die. At the press of a button roll 6 light emitting diodes flash briefly and only one stays lit, representing a number between 1 and 6. Truly, truly random and never rolls off the table! PCB and all parts supplied.

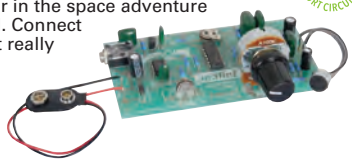
- Requires 9V battery
- Instructions NOT included
- See KJ8223 for individual instructions or full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 108 x 51mm	KJ8222	$17.90	$15.90
Instructions	KJ8223	$3.50	

SC2 PROJECT - SOUND LIKE A DALEK

PROJECT 17 SHORT CIRCUITS 2

This project will change your voice into that metallic sounding robot voice so familiar in the space adventure movies. PCB and parts supplied. Connect it to the no brainer amp and get really scary!



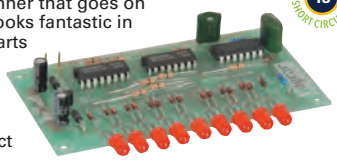
- Requires 9V battery
- Instructions NOT included
- See KJ8229 for individual instructions or full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 102 x 57mm	KJ8228	$28.90	$25.90
Instructions	KJ8229	$3.50	

SC2 PROJECT - KNIGHT RIDER LIGHT SCANNER

PROJECT 18 SHORT CIRCUITS 2

Now you can make the light scanner that goes on the bonnet of that famous car. Looks fantastic in all sorts of places! PCB and all parts supplied.



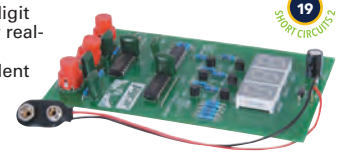
- Require 9V battery
- Instructions NOT included
- See KJ8237 for individual instructions or full colour project book BJ8504
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+	Qty 6+
PCB: 102 x 55mm	KJ8236	$24.90	$22.40	$19.90
Instructions	KJ8237	$3.50		

SC2 PROJECT - EVENT COUNTER - 0 TO 999

PROJECT 19 SHORT CIRCUITS 2

This project demonstrates how 3-digit counters work and can be used for real-world counting jobs, like counting laps on a slot car set, etc. An excellent 'hands on' introduction to electronics.



- PCB and all parts supplied
- Require 9V battery
- Instructions NOT included
- See KJ8235 for individual instructions or full colour project book BJ8504
- Recommended Box - UB1 HB6011 $5.50

	Cat.	Qty 1+	Qty 3+
PCB: 127 x 76mm	KJ8234	$31.90	$27.90
Instructions	KJ8235	$3.50	

SC2 PROJECT - FM RADIO WITH ELECTRONIC TUNING

PROJECT 20 SHORT CIRCUITS 2

This is a true state-of-the-art 88-108MHz FM radio with electronic station tuning and powerful amplifier included! It has a voltage regulated power supply and works really well. Your friends won't believe you built it. PCB and all board parts supplied.

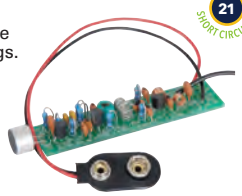
- Require 9V battery
- Instructions NOT included
- See KJ8239 for individual instructions or full colour project book BJ8504
- Recommended Box - HB6032 $9.90

	Cat.	Qty 1+
Instructions	KJ8239	$3.50

SC2 PROJECT - THREE STAGE FM TRANSMITTER

PROJECT 21 SHORT CIRCUITS 2

So stable it could be used as a small radio station. The audience would be limited to the backyard as there are rules about such things.



- A microphone is included
- Recommended Box - UB5 HB6015 $3.90
- Instructions included in kit

	Cat.	Qty 1+	Qty 3+	Qty 6+
PCB: 70 x 10mm	KJ8750	$22.90	$20.90	
Recommended Box - UB5	HB6015	$3.90	$3.10	$2.70

Note: Project packs do not include instructions. Constructors can purchase the book, buy a set of instructions for each project separately or download the book as a PDF for free from our website www.jaycar.co.nz/short-circuits.

Short Circuits 3 Projects

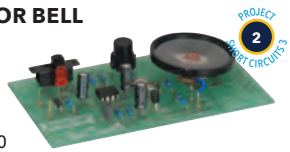
SC3 PROJECT - DASHER FLASHER FOR CARS

This lamp flasher mounts on your car dashboard and starts flashing when the ignition is off. Looks like the real thing. Kit includes PCB, lamp and all components.

- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 47 x 41mm	KJ8050	$13.90	$12.90
Instructions	KJ8051	$3.50	

SC3 PROJECT - DING DONG DOOR BELL

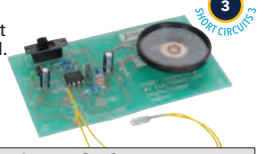


Another useful little kit that generates the sound of a classic Ding Dong door bell. Just the thing for your front door. Kit includes PCB, speaker and all components. 12VDC power required.

- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8052	$16.90	$14.90
Instructions	KJ8053	$3.50	

SC3 PROJECT - ELECTRONIC EYE



Install this kit to monitor traffic on a path or through a doorway. When a person of object breaks the beam the loudspeaker will sound.

- Kit includes PCV, LDR, speaker and all components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 61mm	KJ8054	$17.90	$15.90
Instructions	KJ8055	$3.50	

SC3 PROJECT - SIMPLE FM ALARM

Track moving objects, find the dog when it runs away or even recover your stolen food using an FM radio. This kit transmits a tone over the FM band so that you can track it down using an FM radio. Kit includes PCB, 9V battery and all electronic components. A fun and useful project.

- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8056	$17.90	$15.90
Instructions	KJ8057	$3.50	

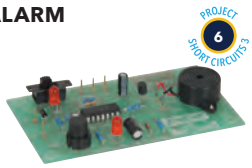
SC3 PROJECT - INFARED REMOTE LINK

This can be used as a remote on/off or momentary switch.

- Kit includes PCBs, 9V battery and all electronic components
- Receiver requires 12VDC power
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8058	$33.90	$29.90
Instructions	KJ8059	$3.50	

SC3 PROJECT - SIMPLE INTRUDER ALARM



This simple design features a normally open and normally closed input, 40 second siren duration and triggered LED indication.

- Kit includes PCB, buzzer and electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8060	$17.90	$15.90
Instructions	KJ8061	$3.50	

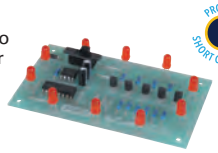
SC3 PROJECT - SCREAMER CAR ALARM

A more sophisticated alarm including entry/exit delay, flashing deterrent light, soft warning alarm and deafening internal siren. Thieves will make a hasty retreat!

- Kit includes PCB, siren and electronic components
- Recommended Box - UB2 HB6012 $8.50

	Cat.	Qty 1+	Qty 3+
PCB: 132 x 88mm	KJ8062	$39.90	$35.90
Instructions	KJ8063	$3.50	

SC3 PROJECT - LIGHT CHASE

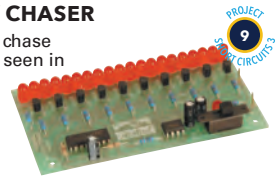


Dazzling display using 10 LEDs that appear to chase each other. Build for a shop, theatre or advertising display.

- Kit includes PCB, LEDs and electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8064	$15.90	$13.90
Instructions	KJ8065	$3.50	

SC3 PROJECT - LIGHT SCANNER / CHASER



An impressive display using 20 LEDs that chase forward and backward - just like scanners seen in space movies.

- Kit includes PCB, LEDs & all electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8066	$21.90	$19.70
Instructions	KJ8067	$3.50	

SC3 PROJECT - REALLY BRIGHT FLASHER

Attract attention with this bright halogen light flasher. The flash rate can be adjusted between 0.5 to 3.5 seconds.

- Kit includes PCB, 12V halogen lamp with base and all electronic components
- 12VAC power required - use MP3044
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8068	$29.90	$26.90
Instructions	KJ8069	$3.50	

SC3 PROJECT - TWO LAMP FLASHER

Alternate flashing halogen lamps with an adjustable flash rate between 1 to 4 seconds.

- Kit includes PCB, two halogen lamps with bases and all electronic components
- 12VAC required - use MP3044
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8070	$39.90	$35.90
Instructions	KJ8071	$3.50	

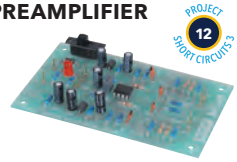
SC3 PROJECT - THE CHAMP AMPLIFIER

A cheap and handy amplifier that can improve low-level signal sources so they can be heard on headphones or a speaker.

- Kit includes PCB, volume potentiometer and all electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8072	$19.90	$17.90
Instructions	KJ8073	$3.50	

SC3 PROJECT - UNIVERSAL STEREO PREAMPLIFIER

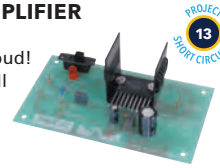


If the input signal to your amplifier is not sufficient you will need a preamplifier such as this one to boost the signal.

- Kit includes PCB and all electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8074	$17.90	$15.90
Instructions	KJ8075	$3.50	

SC3 PROJECT - HIGH POWER 12V AMPLIFIER



This amplifier-on-a-chip can deliver about 13.5-watts into a 4-ohm speaker. That's quite loud!

- Kit includes PCB, amplifier IC, heatsink and all electronic components
- Speaker and 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8076	$29.90	$26.90
Instructions	KJ8077	$3.50	

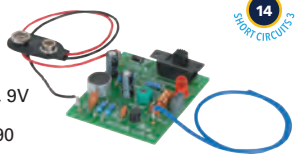
For next day delivery, or Click and Collect, see page 5

Short Circuits 3 Projects CONTINUED

SC3 PROJECT - SIMPLE FM MICROPHONE

PROJECT 14 SHORT CIRCUITS 3

This FM transmitter has many possible uses including baby room monitor, wireless microphone or spy bug. It can be picked up on any FM radio.



- Kit includes PCB, electret microphone, 9V battery and electronic components
- Recommended Box - UB5 HB6015 $3.90

	Cat.	Qty 1+	Qty 3+
PCB: 48 x 42mm	KJ8078	$15.90	$13.70
Instructions	KJ8079	$3.50	

SC3 PROJECT - MINI-MITTER FM TRANSMITTER

PROJECT 15 SHORT CIRCUITS 3

Transmit stereo audio from your tap deck or CD player to any FM radio elsewhere in your house. You could even tune in on a portable walkabout radio.

- Kit supplied with PCB, 1 x AA battery and electronic components
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8114	$42.90	$38.60
Instructions	KJ8115	$3.50	

SC3 PROJECT - LOW-COST INTERCOM SYSTEM

PROJECT 16 SHORT CIRCUITS 3

A low-cost method of communicating between two rooms. The remote unit is hands free so it's also great as a baby monitor.

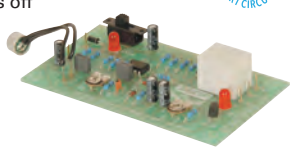
- Kit includes PCB, speakers and electronic components
- 12VDC required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8080	$19.90	$17.90
Instructions	KJ8081	$3.50	

SC3 PROJECT - VOX - SOUND SWITCH

PROJECT 18 SHORT CIRCUITS 3

This sound-activated switch closes a relay when a loud-enough sound is heard. It switches off when the sound stops. Ideal for radio transmitters or surveillance applications.



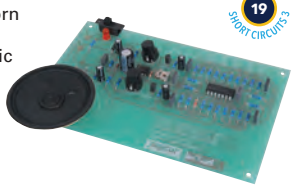
- Kit includes PCB, relay, electret mic & electronic components
- 12VDC required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8084	$17.90	$15.90
Instructions	KJ8085	$3.50	

SC3 PROJECT - TRAIN SOUND FX

PROJECT 19 SHORT CIRCUITS 3

Authentic sounding train whistle and horn sound effects for your model railway.



- Kit includes PCB, speaker and electronic components
- 12VDC power required
- Recommended Box - UB2 HB6012 $8.50

	Cat.	Qty 1+	Qty 3+
PCB: 160 x 103mm	KJ8086	$32.90	$28.90
Instructions	KJ8087	$3.50	

SC3 PROJECT - GUITAR PRACTICE AMPLIFIER

PROJECT 22 SHORT CIRCUITS 3

This low cost amplifier allows you to practice your guitar without annoying the neighbours. It has a guitar type input socket, small speaker and volume.

- Kit includes PCB, speaker socket and electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8092	$19.90	$17.90
Instructions	KJ8093	$3.50	

SC3 PROJECT - GUITAR SUSTAIN UNIT

PROJECT 26 SHORT CIRCUITS 3

Add this sustain unit to your guitar to make it sound more fulfilling. Features adjustable Decay and Attack.

- Kit includes PCB, 6.5mm sockets and electronic components.
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8100	$29.90	$26.90
Instructions	KJ8101	$3.50	

SC3 PROJECT - GUITAR DISTORTION UNIT

PROJECT 27 SHORT CIRCUITS 3

Distortion is popular to many guitarists. It can make the music sound quite different. Project includes PCB, 6.5mm sockets and electrical components.

- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8102	$19.90	$17.90
Instructions	KJ8103	$3.50	

SC3 PROJECT - REGULATED +12V POWER SUPPLY

PROJECT 28A SHORT CIRCUITS 3

Many of the Short Circuits 3 projects require 12VDC power. Using our plugpack (MP3055), this low cost power supply is ideal to power these projects.

- Kit supplied with PCB, 12V regulator and electronic components
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8104	$15.90	$13.90
Instructions	KJ8105	$3.50	

SC3 PROJECT - REGULATED +/- 12V POWER SUPPLY

PROJECT 28B SHORT CIRCUITS 3

Some applications need a positive and negative supply. This circuit will supply a +12V and -12V rail.

- Kit supplied with PCB, 12V regulators and electronic components
- Requires plugpack MP3055
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8106	$18.90	$16.90
Instructions	KJ8107	$3.50	

SC3 PROJECT - UNIVERSAL TIMER

PROJECT 29 SHORT CIRCUITS 3

This timer is adjustable between 1-second to 3.5 minutes. An LED illuminates during the timing period and a buzzer sounds at the end.

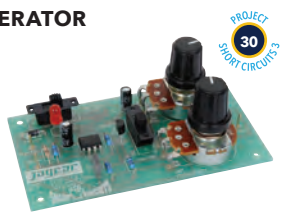
- Kit supplied with PCB, buzzer & electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8108	$19.90	$17.90
Instructions	KJ8109	$3.50	

SC3 PROJECT - WAVEFORM GENERATOR

PROJECT 30 SHORT CIRCUITS 3

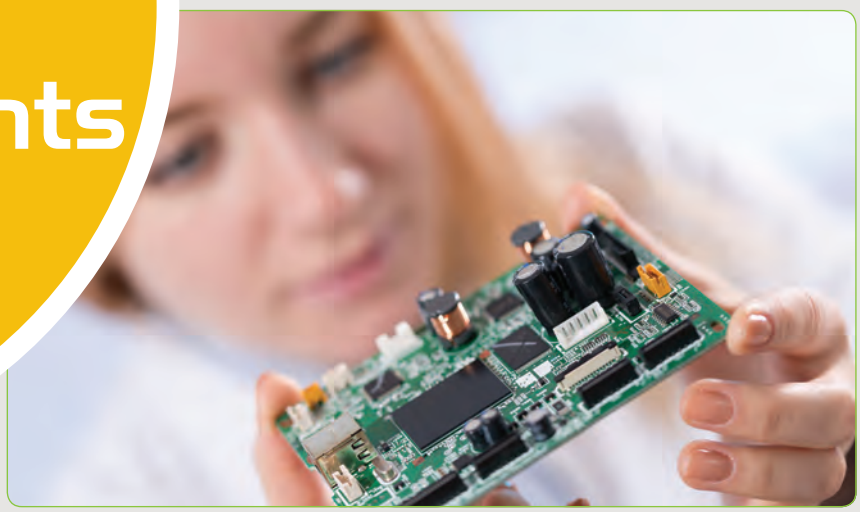
This low-cost signal generator produces adjustable square and triangular waves between 100Hz-20kHz. Ideal for testing, troubleshooting and developing circuits.



- Kit supplied with PCB and electronic components
- 12VDC power required
- Recommended Box - UB3 HB6013 $4.90

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ8110	$22.90	$20.90
Instructions	KJ8111	$3.50	

components



active components:

Integrated Circuits	81
Light Emitting Diodes (LEDs)	88
Transducers	100
Transistors & Diodes	95
Voltage Regulators	98

passive components:

Capacitors	101
EMC / RFI Suppression	105
Ferrites	106
Potentiometers & Knobs	108
Resistors	110

Special Function ICs - SMD

DUAL RS-232 LINE DRIVER/RECEIVER

Case SOIC16

- Dual RS-232 driver/receiver
- Sold as a pack of 10

SMD

Type	Cat.	Qty 1+
MAX232CWE	ZK8822	$74.90

SMD 7 DARLINGTON ARRAY

High voltage, high current Darlington arrays each contain seven open collector Darlington pairs with common emitters. Each channel rated at 500mA and can withstand peak currents of 600mA. Suppression diodes are included for inductive load driving and the inputs are pinned opposite the outputs to simplify board layout.

- Sold as a pack of 10

SMD

Type	Cat.	Qty 1+
ULN2003D	ZK8858	$45.90

8BIT 257 STEP DIGITAL POT - MCP4151-103E/P

8Bit (257 step) digital pots are useful in application that require precision control. They can be used for example in the feedback network of an op amp to provide precise variable gain control, or filters to allow accurate adjustment of the filter properties.

Note: DIP8 through-hole, not SMD.

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
MCP4151-103E/P	ZK8879	$4.90	$4.40	$3.45

SST 49LF020 LPC FLASH MEMORY

The SST 49LF020 flash memory device is designed to interface with the LPC bus for PC, game console and Internet Appliance applications. It provides protection for the storage and update of code and data in addition to adding system design flexibility through five General Purpose Inputs (GPI). The SST 49LF020 is in compliance with the Intel Low Pin Count (LPC) Interface Specification 1.0. Two interface modes are supported: LPC Mode for In-System programming and Parallel Programming (PP) Mode for fast factory programming.

SMD

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
SST 49LF020	ZZ8900	$18.90	$16.70	$12.90

SMD IC BK1198 RADIO RECEIVER

We've come a long way from cat's whiskers and triode valves to digital tuning. The ZK8829 is a digital radio IC that can pick up AM, FM and shortwave, and can be controlled by a potentiometer or resistor string. It's the same IC as in our Cardboard Radio Kit. Comes in 16 pin SOIC package, PI6530 SMD-DIP adapter is recommended for prototyping.

SPECIFICATIONS	ZK8829
FM Band	60 - 112MHz
AM Band	504 - 1750kHz
Shortwave Band	2.2 - 22MHz
Supply Voltage	1.6V - 3.6V

SMD

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
SMD IC BK1198 Radio Receiver	ZK8829	$8.90	$8.00	$6.20

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

p. 202 - surface mount soldering irons
p.210 surface mount handling tools

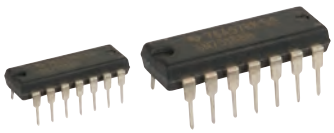
not sure what to buy?

Give a Jaycar Gift Card and let them choose!

Special Function ICs - Through Hole

SPECIAL FUNCTION

• Major brands only



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
1488	14	Quad line driver RS-232	ZZ8148	$4.60	$4.15	$3.20
1489	14	Quad line receiver RS-232	ZZ8149	$4.60	$4.15	$3.20
27C256	28	256k (32k x 8) EPROM	ZZ8471	$18.90	$17.00	$13.20
24LC16B	8	16k I2C serial EEPROM	ZZ8480	$4.60	$4.15	$3.20
24LC256	8	256k I2C serial EEPROM	ZZ8485	$7.40	$6.65	$5.20
ADC0804	20	8 bit A to D converter	ZK8862	$18.90	$17.00	$13.20
DA-C0800LCN	16	8 bit D to A converter	ZK8864	$9.90	$8.90	$6.95
L6202	18	Full bridge driver 1.5A 48V	ZK8874	$18.90	$17.00	$13.20
MAX 232	16	Dual RS232 driver receiver	ZK8824	$8.60	$7.75	$6.00
MC34063	8	DC to DC converter	ZK8837	$9.90	$8.90	$6.95
UA494/TL494	16	Switchmode power contoller	ZK8850	$8.60	$7.75	$6.00
ULN2003N	16	7 Darlington array (5V TTL, CMOS)	ZK8855	$5.90	$5.30	$4.15
XR2206	16	Monolithic function generator	ZK8830	$24.90	$22.40	$17.40

ISD1820 RECORD AND PLAYBACK IC (DIP 14)

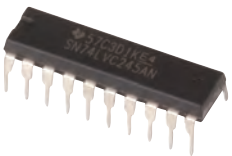
This is the same IC as the XC4605 Record and Playback module. Simple digital control of recording and playback of audio samples, including the ability to drive an 8Ω speaker directly.

• Compact 14 pin DIP package
• Drive 8Ω speaker directly
• Loop select option
• Sample rate adjustable

	Cat.	Qty 1+	Qty 10+	Qty 25+
ISD1820 Record and Playback IC	ZZ8202	$6.90	$6.20	$4.80

74LVC245 DIP 8 CHANNEL BUS TRANSCEIVER DIP 20

Although the full name of the ZK8884 is a 74LVC245 Octal Bus Transceiver, it also makes a great eight channel 3.3V-5V level converter. The inputs are 5V tolerant and the outputs are all 3.3V compatible.



• Eight Channels
• Direction control pin
• Output enable pin
• 20 pin DIP package suits breadboarding

	Cat.	Qty 1+	Qty 10+	Qty 25+
74LVC245	ZK8884	$5.60	$4.90	$3.30

L293D DUAL FULL BRIDGE MOTOR DRIVER IC

The L293D quad half H-bridge motor driver is capable of providing four high power outputs, ideal for driving a stepper motor, or two DC motors. Suitable for 3.3V or 5V logic.

• 16pin DIP IC
• 600mA current drive per channel
• 36V maximum supply voltage
• 5kHz maximum PWM frequency

	Cat.	Qty 1+	Qty 10+	Qty 25+
L293D	ZK8880	$5.60	$5.00	$3.90

Andrew Crane likes to

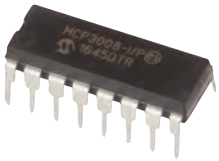
think. possible.

"This is a flight controller, as used in hobby UAV's. I believe these will evolve and have begun evolving to encompass AI. In the future, I think we will see automated flight servicing our continent. Goods will be delivered to an individuals location rapidly."

Specialty ICs

MCP3008 8 CHANNEL 10 BIT ADC DIP 16

The MCP3008 is an 8 channel 10 bit ADC (analog-to-digital converter) suitable for use with a microcontroller or single board computer. Great for adding analog inputs to chips that lack it.

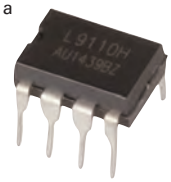


• SPI interface
• Up to 200 ksps at 5V supply
• Suits Raspberry Pi

	Cat.	Qty 1+	Qty 10+	Qty 25+
MCP3008 8 Channel 10 Bit ADC	ZK8868	$14.90	$13.90	$10.90

L9110 BRIDGE DRIVER IC DIP 8

A compact 8 pin DIP package which can control a small motor from a microcontroller.

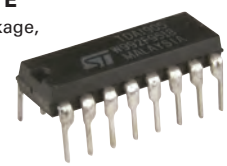


• Handles up to 2.5V- 12V, 800mA continuous
• Interface to TTL level inputs down to 2.7V
• Suitable for reversible control on one DC motor
• Easy for prototyping on breadboards

	Cat.	Qty 1+	Qty 10+	Qty 25+
L9110 Bridge Driver IC DIP 8	ZK8882	$4.50	$4.00	$3.10

TDA1905 5W AMPLIFIER IC WITH MUTE

Monolithic integrated circuit in POWERDIP package, intended for use as low frequency power amplifier in a wide range of applications in radio and TV sets:

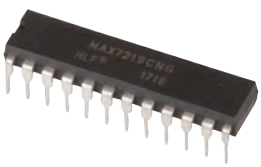


• Muting facility
• High supply voltage rejection
• Voltage range 4V to 30V
• Protection against chip over temperature
• Power dissipation of up to 6W and a thermal resistance of 15°C/W (junction to pins)
• Very low noise
• Low switch-on noise
• Full data on website

	Cat.	Qty 1+	Qty 10+	Qty 25+
TDA1905	ZL3600	$9.50	$8.50	$6.50

MAX7219 LED MATRIX DRIVER IC

The MAX7219 is an all-in-one LED Matrix driver suitable for controlling an 8x8 LED Matrix or even eight 7 segment displays (BCD decoding can be done on the chip too). This is the same IC that is on XC4499 and XC3714.



• SPI interface (3 IO pins)
• Can be daisy chained for larger displays
• Adjustable brightness
• 24 Pin DIP package

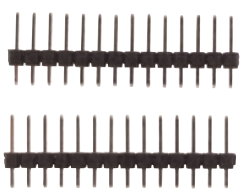
Requires only one external component (resistor for LED current setting)

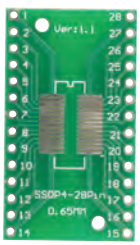
	Cat.	Qty 1+	Qty 10+	Qty 25+
MAX7219 LED Matrix Driver IC	ZK8825	$5.60	$5.00	$3.90

28 PIN SOIC/SOP TO DIP BREADBOARD ADAPTOR

More and more IC's are now only available as surface mount variants, making prototyping harder. The SMD breadboard adaptor allows SMD IC's and other smaller pitch components to be used with standard 0.1" prototyping equipment such as breadboard and protoboards.

• Suits 4-28 pin SOP/SOIC IC's (SOIC on one side, SOP on the other)
• 1.27mm pitch and 0.65mm pitch
• Header strip included



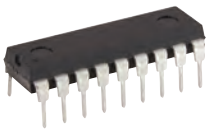


	Cat.	Qty 1+	Qty 10+	Qty 25+
28 pin SOIC/SOP to DIP Adaptor	PI6530	$3.30	$2.90	$2.60

Microcontroller - Atmel

ATMEL MICROCONTROLLERS

• 8 bit micro + flash memory



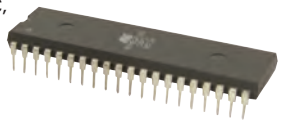
Type	Pins	Memory	Cat.	Qty 1+	Qty 10+	Qty 25+
AT89C2051-24PC	20	2kB	ZZ8700	$5.40	$4.85	$3.75
AT90S2313-10PC	20	2kB	ZZ8710	$11.90	$10.70	$8.30
AT90S1200-12PC	20	1kB	ZZ8750	$13.90	$12.50	$9.70
ATmega8535-16PU	40	8kB	ZZ8742	$12.90	$11.30	$8.90
ATmega16-8PC	40	16kB	ZZ8755	$17.90	$16.10	$12.30
ATmega32-8PC/-16PU	40	32kB	ZZ8760	$26.90	$23.90	$18.90
ATmega8515-8PC	40	8kB	ZZ8765	$12.90	$11.30	$8.90

p.26 - Arduino boards, modules & shields

ATMEGA AVR RISC MICROCONTROLLERS - 16MHZ

Atmel's AVR microcontrollers utilise their famous RISC core operating at market leading speeds to make some of the best microcontroller products available. Architecture engineered for working with compiled C language programs, there is no longer a need for assembly language or a need for inefficient and unwieldy BASIC, so you can develop your project quicker without having to learn a new language.

• 8 bit micro + flash memory

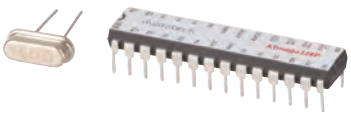


Type	Pins	Memory	Cat.	Qty 1+	Qty 10+	Qty 25+
ATmega8-16PI	28	8kB	ZZ8753	$10.90	$9.80	$7.60
ATmega128-16AI	40	12kB	ZZ8770	$29.90	$26.90	$20.70
ATmega162-16PI	40	6kB	ZZ8772	$26.90	$23.90	$18.90

ATMEGA328P MCU IC WITH ARDUINO UNO BOOTLOADER & 16MHZ CRYSTAL

An Atmel AVR ATmega328P microcontroller for you to build your very own customised Arduino compatible projects. For your convenience it comes with the Arduino Uno bootloader pre-installed and features a label on top which details the pinouts. Includes 16MHz crystal oscillator.

• Same IO pins as Duinotech Uno Board
• 0 - 4MHz @ 1.8 - 5.5V, 0 - 10MHz @ 2.7 - 5.5V, 0 - 20MHz @ 4.5 - 5.5V
• 28-pin DIP format for easy use in breadboards or Arduino compatible boards



duinotech

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZZ8727	$15.90	$14.30	$11.10

ATTINY85 IC 8 PIN DIP8

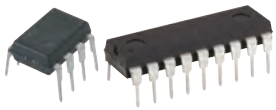
The ATtiny85 AVR is a RISC-based microcontroller in an 8 pin DIP microcontroller. The device achieves a throughput of 20 MIPS at 20MHz and operates between 2.7-5.5 volts. The ATtiny85 is also capable of being programmed as an Arduino board using the ATtiny85 board profile and an ISP programmer.

• 8kB Flash Program Memory
• 512B EEPROM
• 512B RAM
• 6 GPIO pins (with reset disabled)
• 4 10bit ADC

	Cat.	Qty 1+	Qty 10+	Qty 25+
ATtiny85 IC 8 pin DIP8	ZZ8721	$5.60	$5.00	$4.40

Microcontroller - PIC

THROUGH HOLE



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
PIC12C509A-04P	8	8 Bit micro	ZZ8600	$3.65	$3.30	$2.55

SMD

• *Sold as a pack of 5*

Type	Case	Description	Cat.	Qty 1+
PIC16C711-20I/SO	SOIC18	8 Bit micro + A to D converter	ZZ8552	$19.90

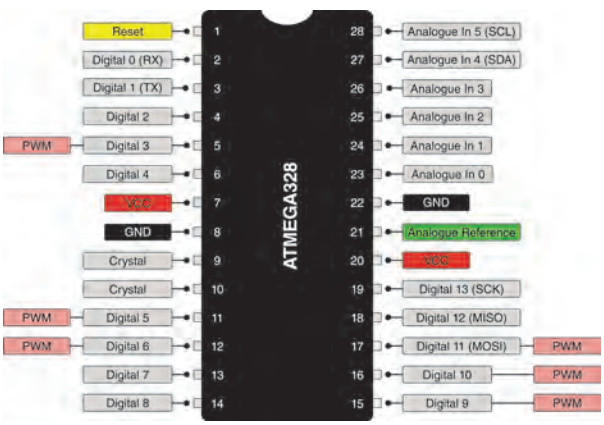
PROGRAMMING & CUSTOMISING THE PIC MICROCONTROLLER BOOK

Tap into the latest advances in PIC technology with the fully revamped third edition of this brilliant book. More than 600 illustrations and comprehensive, easy-to-understand coverage of the PIC microcontroller's hardware and software schemes. With 100 experiments, projects and libraries, you get a firm grasp of PICs, how they work and the ins-and-outs of their most dynamic applications. Covers Assembly, BASIC, and C programming languages. It also covers the latest program development tools and includes a refresher in electronics and programming as well as reference material.

	Cat.	Qty 1+
Soft cover, 1263 pages	BT1347	$119.00

tech talk Useful Pinouts

Below is the pinout diagram of the ATMega328 microcontroller IC, found on the popular Arduino® Uno board. You'll find this diagram handy if you're prototyping on some breadboard instead of using one of our pre-built modules. See our ATMega328P micro and crystal kit (ZZ8727) shown below.



tech talk Basic Logic Functions

AND

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

NAND

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0

OR

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

NOR

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0

XOR

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0

XNOR

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	1

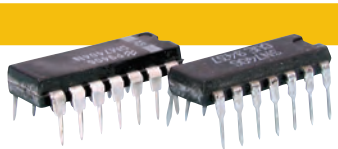
CMOS Series

- Standard CMOS logic
- Major brands only

Type	Pins	Desciption	Cat.	Qty 1+	Qty 10+	Qty 25+
4001	14	Quad 2 input NOR gate	ZC4001	$1.40	$1.25	$0.85
4007	14	Dual comp pair plus inverter	ZC4007	$1.65	$1.45	$1.00
4009	16	Hex buffer (inverting)	ZC4009	$2.15	$1.90	$1.30
4011	14	Quad 2 input NAND gate	ZC4011	$1.40	$1.25	$0.85
4012	14	Dual 4 input NAND gate	ZC4012	$2.60	$2.20	$1.50
4013	14	Dual D flip-flop	ZC4013	$1.40	$1.25	$0.85
4015	16	Dual 4 bit static shift register	ZC4015	$2.15	$1.90	$1.30
4016	14	Quad bi-lateral switch	ZC4016	$1.40	$1.25	$0.85
4017	16	Decade counter/divider	ZC4017	$1.40	$1.25	$0.85
4018	16	Presettable divide by N counter	ZC4018	$3.40	$3.00	$2.05
4020	16	14-stage ripple carry binary counter	ZC4020	$2.40	$2.10	$1.45
4021	16	8-stage static shift register	ZC4021	$2.40	$2.10	$1.45
4022	16	Divide-by-8 counter/divider	ZC4022	$2.40	$2.10	$1.45
4023	14	Triple 3 input NAND gate	ZC4023	$1.55	$1.35	$0.95
4024	14	7-stage ripple carry binary counter	ZC4024	$1.55	$1.35	$0.95
4025	14	Triple 3-input NOR gate	ZC4025	$1.55	$1.35	$0.95
4026	16	Decade counter with 7 segment output	ZC4026	$3.00	$2.65	$1.80
4027	16	Dual JK flip-flop	ZC4027	$1.40	$1.25	$0.85
4028	16	BCD-to-Decimal Decoder	ZC4028	$1.40	$1.25	$0.85
4029	16	Presettable bin/decade up/down cntr	ZC4029	$2.15	$1.90	$1.30
4030	14	Quad 2 input exclusive OR gate	ZC4030	$2.15	$1.90	$1.30
4040	16	12-stage ripple carry binary counter	ZC4040	$2.15	$1.90	$1.30
4046	16	Micropower phase locked loop (PLL)	ZC4046	$2.40	$2.10	$1.45
4047	14	Monostable/Astable multivibrator	ZC4047	$2.65	$2.35	$1.60
4049	16	Hex buffer (inverting)	ZC4049	$1.40	$1.25	$0.85
4050	16	Hex buffer (non-inverting)	ZC4050	$1.55	$1.35	$0.95
4051	16	Single 8 channel analog mux/ demux	ZC4051	$2.15	$1.90	$1.30
4052	16	Dual 4 channel analog mux/demux	ZC4052	$1.40	$1.25	$0.85
4053	16	Triple 2 channel analog mux/demux	ZC4053	$2.15	$1.90	$1.30
4056	16	BCD to 7seg LCD decoder/driver	ZC4056	$3.40	$3.00	$2.05
4060	16	14-stage ripple carry binary counter	ZC4060	$2.15	$1.90	$1.30
4066	14	Quad bi-lateral switch	ZC4066	$1.50	$0.95	$0.62
4069	14	Hex inverter	ZC4069	$1.40	$1.25	$0.85
4070	14	Quad 2 input exclusive OR gate	ZC4070	$1.40	$1.25	$0.85
4071	14	Quad 2 input OR gate	ZC4071	$1.40	$1.25	$0.85
4073	14	Triple 3 input AND gate	ZC4073	$1.40	$1.25	$0.85
4075	14	Triple 3 input OR gate	ZC4075	$2.15	$1.90	$1.30
4076	16	4 bit tri-state D-type register	ZC4076	$2.15	$1.90	$1.30
4077	14	Quad 2 input exclusive NOR gate	ZC4077	$2.15	$1.90	$1.30
4081	14	Quad 2 input AND gate	ZC4081	$1.55	$1.35	$0.95
4093	14	Quad 2 input NAND schmitt trigger	ZC4093	$2.05	$1.80	$1.25
4094	16	8-bit tri-state shift register/latch	ZC4094	$2.05	$1.80	$1.25
40106	14	Hex schmitt trigger (inverting)	ZC4914	$2.15	$1.90	$1.30
4502	16	Strobed hex tri-state inverter	ZC4502	$2.65	$2.35	$1.60
4510	16	BCD up/down counter + preset	ZC4510	$2.40	$2.10	$1.45
4511	16	BCD to 7seg decoder/driver	ZC4511	$2.40	$2.10	$1.45
4516	16	Binary up/down counter + preset	ZC4516	$3.30	$2.90	$2.00
4518	16	Dual BCD up counter	ZC4518	$2.65	$2.35	$1.60
4520	16	Dual binary up counter	ZC4520	$2.40	$2.10	$1.45
4538	16	Dual monostable multivibrator	ZC4538	$3.30	$2.90	$2.00
4543	16	BCD to 7seg LCD latch/decoder/driver	ZC4543	$2.15	$1.90	$1.30

TTL Series

- Standard TTL logic
- *Major brands only*



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
7404	14	Hex inverter	ZS5804	$4.50	$3.95	$2.70
7405	14	Hex inverter with OC outputs	ZL3405	$4.50	$3.95	$2.70
7406	14	Hex inverter with 30V OC outputs	ZS5806	$3.65	$3.20	$2.20
7407	14	Hex buffer with 30V OC outputs	ZS5807	$2.05	$1.80	$1.25

Non-Static Sheeting

CONDUCTIVE FOAM

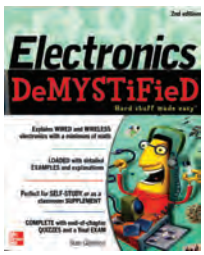
Non-static sheeting for storing CMOS, ICs, LSIs, etc.

- Will store up to 150 ICs on one sheet
- Reusable, Can be cut with scissors or hobby knife for smaller pieces
- Size 225x150mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	ZV9998	$11.90	$10.70	$8.20

ELECTRONICS DEMYSTIFIED

Part of the popular Demystified series, this book teaches you electronics theory, it does not include projects. It avoids heavy mathematical formulae, but, be warned there are equations in this book. They are not seriously hard though! The book starts at simple DC circuits, goes through AC circuits, impedance, reactance, power supply concepts, semiconductor basics, amplifiers, oscillators, RF, telecommunications and finishes on antennas. At the end of each chapter is a straightforward quiz (multiple choice) to make sure you are on top of concepts. This is the best-written technical book on novice to moderately advanced electronics we have seen. Read this book and understand it - you are a serious techo.



- Dimensions: 230 x 185mm

	Cat.	Qty 1+
Soft cover, 468 pages	BM7106	$48.90

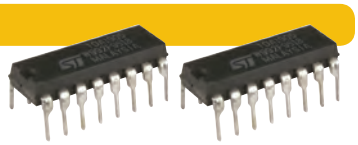
GLOSSARY OF TERMS

Duty cycle	Duty cycle is commonly expressed as a percentage or a ratio, and indicates the amount of time over a certain period that a component is turned on. And a period is the time it takes for a signal to complete an on-and-off cycle. For example, when using a PWM value of 127 (out of a total of 256), you have a 50% duty cycle.
Firmware	Similar to software, however it is stored on non volatile memory and can be executed in place - without being copied in RAM - by a microcontroller. It is used in embedded systems and it is made of machine code instructions. Firmware is usually updateable.
Ground	The point of a circuit where there is 0 potential electrical energy. Without a ground, electricity will not have a place to flow in a circuit.
I2C	I2C - Inter Integrated Circuit - is two wires serial synchronous bus that provides communication between two Integrated Circuits. The I2C can run at different speed: 100 Kbps, 400Kbps and 3.4 Mbps. It's used to connect also different boards with the simplicity of wiring only two cables, called SDA (Data line), SCL (Clock line). Can support up to 1008 slave devices.
ICSP	In-Circuit Serial Programming is the ability of a microcontroller to be programmed directly on the board on which it is monuted. It is also a set of signals and pins used for the programming.
IDE	Integrated Development Environment. The Arduino IDE for example, is where users write code to upload to an Arduino board.
EEPROM	Electrically Erasable Programmable Read-Only Memory and is user-modifiable read-only memory (ROM) that can be erased and reprogrammed (written to) repeatedly
Digital IO	Digital Input and Output - refers to binary data flowing into and out of a circuit; the signal is either high(1) or low(0).
Analogue IO	Analog Input and Output - these signals are variable, and have multiple states. Analog input signals can represent - temperature or level or rate of flow.
GPIO	Stands for "General Purpose Input/Output." GPIO is a type of pin found on an integrated circuit that does not have a specific function. While most pins have a dedicated purpose, such as sending a signal to a certain component, the function of a GPIO pin is customizable and can be controlled by software.
RS232	RS-232 is a standard communication protocol for linking computer and its peripheral devices to allow serial data exchange.
RAM	Random Access Memory. It is a fast memory that offers both read and write capabilities. RAM is a volatile memory and requires power to keep the data accessible. If the computer is turned off, all data contained in RAM is lost.
ROM	Read Only Memory. Data that normally can only be read, not written to. ROM contains the programming that allows your computer to be "booted up" or regenerated each time you turn it on. Unlike a computer's random access memory (RAM), the data in ROM is not lost when the computer power is turned off.

See www.jaycar.co.nz/glossary for more!

74LS Series

- Low power Schottky logic
- Major brands only



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74LS00	14	Quad 2 input NAND gate	ZS5000	$2.20	$1.95	$1.50
74LS01	14	Quad 2 input NAND gate (OC)	ZS5001	$1.85	$1.65	$1.25
74LS02	14	Quad 2 input NOR gate	ZS5002	$1.85	$1.65	$1.25
74LS04	14	Hex Inverter	ZS5004	$1.85	$1.65	$1.25
74LS05	14	Hex inverter (OC)	ZS5005	$1.85	$1.65	$1.25
74LS08	14	Quad 2 input AND gate	ZS5008	$1.85	$1.65	$1.25
74LS10	14	Triple 3 input NAND gate	ZS5010	$2.00	$1.80	$1.40
74LS11	14	Triple 3 input AND gate	ZS5011	$2.00	$1.80	$1.40
74LS14	14	Hex schmitt trigger inverter	ZS5014	$1.75	$1.55	$1.20
74LS20	14	Dual 4 input NAND gate	ZS5020	$1.85	$1.65	$1.25
74LS27	14	Triple 3 input NOR gate	ZS5027	$2.80	$2.50	$1.95
74LS30	14	Single 8 input NAND gate	ZS5030	$1.40	$1.25	$0.95
74LS32	14	Quad 2 input OR gate	ZS5032	$1.85	$1.65	$1.25
74LS42	16	BCD to decimal decoder	ZS5042	$5.90	$5.30	$4.10
74LS47	16	BCD to 7 seg decoder/driver OC	ZS5047	$2.50	$2.25	$1.75
74LS74	14	Dual D flip-flop, preset, clear	ZS5074	$1.85	$1.65	$1.25
74LS85	16	4 bit magnitude comparator	ZS5085	$3.90	$3.50	$2.70
74LS86	14	Quad 2 input exclusive OR gate	ZS5086	$1.85	$1.65	$1.25
74LS90	14	Decade counter	ZS5090	$2.50	$2.25	$1.75
74LS93	14	4 bit binary counter	ZS5093	$6.90	$6.20	$4.70
74LS109	16	Dual JK flip-flop + preset + clear	ZS5109	$5.60	$5.00	$3.90
74LS123	16	Dual retrig monostable with clear	ZS5123	$2.40	$2.15	$1.70
74LS125	14	Quad tri-state buffer	ZS5125	$2.30	$2.00	$1.80
74LS138	16	3 to 8 line decoder/demux	ZS5138	$2.20	$1.95	$1.50
74LS139	16	Dual 2 to 4 line decoder/demux	ZS5139	$1.75	$1.55	$1.20
74LS151	16	Single 8 input multiplexer	ZS5151	$2.40	$2.15	$1.70
74LS153	16	Dual 4 input multiplexer	ZS5153	$2.50	$2.25	$1.75
74LS155	16	Dual 2 to 4 line decoder/demux	ZS5155	$3.10	$2.80	$2.15
74LS157	16	Quad 2 to 1 line multiplexer	ZS5157	$1.85	$1.65	$1.25
74LS161	16	4 bit binart counter (async. reset)	ZS5161	$2.50	$2.25	$1.75
74LS164	14	8 bit shift register (ser. in/par. out)	ZS5164	$1.85	$1.65	$1.25
74LS174	16	Hex D flip-flop + clear	ZS5174	$3.00	$2.70	$2.10
74LS175	16	Quad D flip-flop with clear	ZS5175	$1.85	$1.65	$1.25
74LS192	16	Up/down dec counter/dual clock	ZS5192	$3.10	$2.75	$2.15
74LS193	16	Up/down bin counter/dual clock	ZS5193	$2.50	$2.25	$1.75
74LS221	16	Dual monostable multivibrator	ZS5221	$2.20	$2.00	$1.55
74LS240	20	Octal tri-state buffer (inverting)	ZS5240	$2.50	$2.25	$1.75
74LS241	20	Octal tri-state buffer (non-inverting)	ZS5241	$2.80	$2.50	$1.95
74LS244	20	Octal tri-state line driver/receiver	ZS5244	$2.50	$2.25	$1.75
74LS245	20	Octal tri-state bus transceiver	ZS5245	$2.50	$2.25	$1.75
74LS273	20	Octal D flip-flop + clear	ZS5373	$3.10	$2.80	$2.15
74LS283	16	4 bit binary full adder + carry	ZS5263	$5.40	$4.85	$3.75
74LS373	20	Octal tri-state transparent latch	ZS5273	$2.20	$1.95	$1.50
74LS374	20	Octal tri state D flip-flop	ZS5274	$2.20	$1.95	$1.50

Christopher Bromley likes to

think. possible.

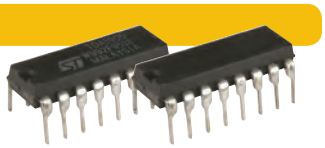
"I love the idea of Quantum computing, and I believe in 5-10 years it will be available to home users. Just look at the advencements in the past 2 years. Michelle Simmons won Australian of the year in 2018 and IBM has released a commercial one, plus Google is close."

product data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

74HC Series

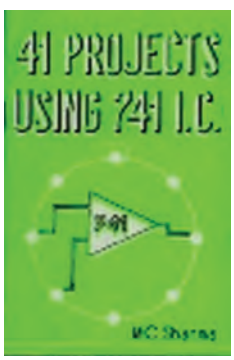
- High speed CMOS logic
- Major brands only



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74HC00	14	Quad 2 input NAND gate	ZC4800	$1.40	$1.20	$0.80
74HC02	14	Quad 2 input NOR gate	ZC4802	$1.65	$1.45	$0.95
74HC04	14	Hex inverter	ZC4804	$1.65	$1.45	$0.95
74HC08	14	Quad 2 input AND gate	ZC4808	$1.65	$1.45	$0.95
74HC10	14	Triple 3 input NAND gate	ZC4810	$1.65	$1.45	$0.95
74HC14	14	Hex schmitt trig inverter	ZC4821	$1.65	$1.45	$0.95
74HC27	14	Triple 3 input NOR gate	ZC4827	$1.65	$1.45	$0.95
74HC30	14	8 input NAND gate	ZC4811	$2.50	$2.20	$1.50
74HC32	14	Quad 2 input OR gate	ZC4823	$1.65	$1.45	$0.95
74HC42	16	BCD to decimal decoder	ZC4826	$3.40	$3.00	$2.05
74HC51	14	Dual 2 wide/2 input, 2 wide/3 input AND-OR-INVERT gate	ZC4828	$2.65	$2.35	$1.60
74HC73	14	Dual JK flip-flop + clear	ZC4829	$2.65	$2.35	$1.60
74HC74	14	Dual D flip-flop + preset + clear	ZC4830	$1.65	$1.45	$0.95
74HC76	16	Dual JK flip-flop + preset + clear	ZC4832	$4.50	$3.95	$2.70
74HC85	16	4 bit magnitude comparator	ZC4834	$2.65	$2.35	$1.60
74HC86	14	Quad 2 input exclusive OR gate	ZC4835	$1.85	$1.65	$1.10
74HC107	14	Dual JK flip-flop + clear	ZC4837	$3.65	$3.20	$2.20
74HC123	16	Dual retrig monostable multivibrator + clear	ZC4840	$2.65	$2.35	$1.60
74HC125	14	Quad tri-state buffer (non-inverting)	ZC4842	$2.40	$2.10	$1.45
74HC132	14	Quad 2 input NAND gate + schmitt trig	ZC4844	$2.40	$2.10	$1.45
74HC138	16	3 to 8 line decoder/demux	ZC4846	$2.65	$2.35	$1.60
74HC139	16	Dual 2 to 4 line decoder/demux	ZC4848	$2.65	$2.35	$1.60
74HC151	16	8 to 1 line multiplexer	ZC4849	$2.65	$2.35	$1.60
74HC154	24	4 to 16 line decoder/demux	ZC4850	$4.50	$3.95	$2.70
74HC157	16	Quad 2 line to 1 line multiplexer	ZC4853	$2.15	$1.90	$1.30
74HC160	16	Synch 4 bit BCD counter + preset	ZC4855	$4.50	$3.95	$2.70
74HC161	16	Synch 4 bit binary counter + preset	ZC4856	$3.30	$2.90	$2.00
74HC164	14	8 bit ser-in/par-out shift reg	ZC4857	$2.15	$1.90	$1.30
74HC165	16	8 bit par-in/ser-out shift reg	ZC4858	$2.15	$1.90	$1.30
74HC174	16	Hex D flip-flop + clear	ZC4862	$2.30	$1.90	$1.30
74HC193	16	Synch 4 bit binary up/down counter	ZC4864	$2.40	$2.10	$1.45
74HC221	16	Dual monostable multivibrator	ZC4865	$4.00	$3.50	$2.40
74HC240	20	Octal tri-state buffer (inverting)	ZC4867	$3.55	$3.10	$2.15
74HC244	20	Octal tri-state buffer (non-inverting)	ZC4869	$2.40	$2.10	$1.45
74HC245	20	Octal tri-state transceiver	ZC4870	$2.40	$2.10	$1.45
74HC367	16	Hex tri-state buffer	ZC4872	$2.65	$2.35	$1.60
74HC373	20	Octal tri-state transparent latch	ZC4874	$2.40	$2.10	$1.45
74HC374	20	Octal tri-state D flip-flop	ZC4875	$2.65	$2.35	$1.60
74HC393	14	Dual 4 bit binary counter	ZC4880	$3.10	$2.75	$1.85
74HC573	20	Octal tri-state transparent D latch	ZC4890	$3.55	$3.10	$2.15
74HC595	16	8 bit tri-state ser-in/ser+ par-out shift reg	ZC4895	$4.10	$3.60	$2.45
74HC4066	14	Quad bilateral analog switch	ZC4892	$1.40	$1.25	$0.85

41 PROJECTS USING 741 IC

By M C Sharma. The 741 OP amp IC is very inexpensive yet is comparable to the best in respect of versatility and performance. We can't list every one of the 41 kits but here are a few examples: inverting and non-inverting AC and DC amps, crystal, magnetic, guitar, telephone and mic preamps, 3W and 12W amps, intercom, AC and DC motor control, schmitt trigger, square wave generator, flasher, timer light op relay, DC voltmeter, AC millivoltmeter, RPM counter, A to D converter, etc.



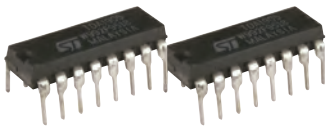
	Cat.	Qty 1+
Soft cover, 37 pages 140 x 210mm	BM2430	$9.00

For next day delivery, or Click and Collect, see page 5

Linear ICs

THROUGH HOLE

• Major brands only



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
AN7511	8	Balanced transformerless audio amp 1W	ZL3388	$6.90	$5.90	$4.70
BA1404	18	FM stereo transmitter	ZL3995	$8.50	$7.60	$5.90
CA3140	8	4.5MHz BiMOS op-amp	ZL3835	$4.60	$4.15	$3.20
CA3130	8	15MHz BiMOS op-amp	ZL3860	$5.90	$5.30	$4.15
INA126PA	8	Mircopower Instrument Amp	ZL3976	$7.90	$7.10	$5.50
LM301	8	High performance op-amp	ZL3301	$2.80	$2.50	$1.95
LM308	8	Precision op-amp	ZL3308	$15.90	$14.30	$11.00
LM311	8	Voltage comparator	ZL3311	$2.40	$2.15	$1.70
LM319	14	High speed dual comparator	ZL3319	$4.60	$4.15	$3.20
LM324	14	Quad low power op-amp	ZL3324	$2.90	$2.60	$2.05
LM334Z	3	Adjustable current source	ZL3334	$3.40	$3.05	$2.40
LM335Z	3	Temperature sensor TO92	ZL3336	$5.60	$5.05	$3.90
LM339	14	Quad low power comparator	ZL3339	$2.40	$2.15	$1.70
LM348	14	Quad 741 op-amp	ZL3348	$3.40	$3.05	$2.40
LM358	8	Dual low power op-amp	ZL3358	$2.80	$2.50	$1.95
LM380	14	Audio power amp 2.5W	ZL3380	$4.25	$3.85	$3.00
LM386N-1	8	Low voltage audio amp 325mW	ZL3386	$3.40	$3.05	$2.40
LM393	8	Low power dual comparator	ZL3393	$2.80	$2.50	$1.95
LM567	8	Low power tone decoder	ZL3567	$4.60	$4.15	$3.20
LM741	8	General purpose op-amp	ZL3741	$2.40	$2.15	$1.70
LM747	14	Dual op-amp	ZL3747	$6.90	$6.20	$4.70
LM833N	8	Dual low noise op-amp	ZL3833	$3.90	$3.50	$2.75
LM1458	8	Dual op-amp	ZL3753	$2.15	$1.95	$1.50
LM1875	5	25W audio power amplifier	ZL3755	$8.90	$8.00	$6.20
LM2917	14	Frequency to voltage convertor	ZL3930	$8.00	$7.20	$5.60
LM3875T	11	56W audio power amplifier	ZL3752	$23.90	$21.50	$16.70
LM3900	14	Quad op-amp	ZL3900	$3.40	$3.05	$2.40
LM3914	18	LED bar/dot driver (linear)	ZL3914	$9.90	$8.90	$6.95
LM3915	18	LED bar/dot driver (logarithmic)	ZL3915	$9.90	$8.90	$6.95
LM4558	8	Dual high performance op-amp	ZL3958	$2.15	$1.95	$1.50
LM7555	8	CMOS timer	ZL3455	$2.65	$2.35	$1.60
LMC6482AIN	8	Dual CMOS op-amp	ZL3482	$7.30	$6.50	$5.10
LMC6484AIN	14	Quad CMOS op-amp	ZL3484	$11.90	$10.70	$8.30
NE555	8	555 timer	ZL3555	$2.70	$2.40	$1.85
NE556	14	Dual 555 timer	ZL3556	$2.40	$2.15	$1.70
NE5534N	8	Low noise op-amp	ZL3970	$4.90	$4.40	$3.45
NE5534AN	8	Ultra low noise op-amp	ZL3971	$5.90	$5.30	$4.15
OP07C/D	8	Precision op-amp	ZL3974	$5.90	$5.30	$4.10
OPA2314PA	8	Dual high perf audio op-amp	ZL3972	$10.90	$9.50	$7.20
TL071/LF351	8	Single low noise JFET op-amp	ZL3071	$2.65	$2.40	$1.85
TL072/LF353	8	Dual low noise JFET op-amp	ZL3072	$2.65	$2.40	$1.85
TL074/LF347	14	Quad low noise JFET op-amp	ZL3074	$3.40	$3.05	$2.40
TL084	14	Quad JFET op-amp	ZL3084	$3.10	$2.80	$2.15

SMD LINEAR ICS

SMD op-amp ICs for audio applications.

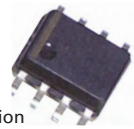
• Packs of 10

Type	Case	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
LM324M	SOIC14	Quad low power op-amp	ZL3342	$36.90	$33.20	$25.80
µA741CD	SOIC8	General Purpose op-amp	ZL3070	$11.90		

SMD 555 TIMER ICS

• Timing from microseconds through hours
• Operates in both astable and monostable modes
• Adjustable duty cycle
• Output can source or sink 200mA
• Output and supply TTL compatible
• Normally on and normally off output
• Sold as a pack of 10

Applications:
• Timing
• Pulse generation
• Time delay generation
• Pulse width modulation
• Pulse position modulation
• Linear ramp generator



SMD

Type	Case	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
NE555D	SOIC8	555 Timer	ZL3550	$16.90	$15.20	$11.80

Related Product

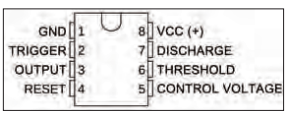
555 timer & its applications

The 555 Timer IC is probably the most used IC in the world. It gives accurate timing range of micro seconds to hours. This book describes the functions and operation of the 555, then explains 21 projects to build using the IC. Some of these include photo timer, touch plate controller, car wiper control, car lights turn off, flashers, generators, delays auto power on and off, Ni-Cd charger, frequency divider, light operated relay, etc. An ideal book for the electronic hobbyist and experimenter.

• 43 Pages

	Cat.	Qty 1+
Soft cover 138 x 208mm	BM2466	$8.50

tech talk The 555 Timer



It would be a mean-spirited person who did not concede that the 555 Timer IC was - and still is - the most popular chip ever made. Invented in 1971 by a U.S. company called Signetics it has a number of really useful features.

Firstly it's a timer. It's a pulse generator and finally an oscillator, all in an 8 pin package. The original version was fabricated with bipolar transistors, and although still popular a CMOS version is now dominant. The bipolar version, like 74 series TTL drew a lot of current and also created an annoying amount of switching noise on power supply rails. Such is the popularity of this circuit, it is available in standard bipolar, CMOS in single, double and quad timer packages. Jaycar still carry the product in original form, (555) dual 556, CMOS 7555 and in a single surface mount version! It was said that the name 555 came from the fact that the circuit contained 3 x 5k resistors used within. The inventor of the original device, Hans Camenzind disputes this, saying that the number of the part was arbitrary. Whatever, the fact is that around a billion of them are made every year in one form or another.

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automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

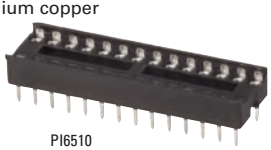
IC Sockets

PRODUCTION PCB MOUNT

Makes it easy to remove or replace your IC without desoldering.
- Solder tail
- All tin plated phosphor bronze or beryllium copper
- 0.1" (2.54mm) pitch

LOW COST

PI6500


PI6510

Pins	Width	Cat.	Qty 1+	Qty 10+	Qty 25+
6	0.3"	PI6499	$0.45	$0.40	$0.36
8	0.3"	PI6500	$0.48	$0.43	$0.38
14	0.3"	PI6501	$0.50	$0.45	$0.40
16	0.3"	PI6502	$0.55	$0.49	$0.44
18	0.3"	PI6503	$0.62	$0.55	$0.49
20	0.3"	PI6504	$0.70	$0.63	$0.56
22	0.3"	PI6505	$0.75	$0.67	$0.60
24	0.6"	PI6506	$0.80	$0.72	$0.64
28	0.6"	PI6507	$1.00	$0.90	$0.80
28	0.3"	PI6510	$0.90	$0.81	$0.72
40	0.6"	PI6508	$1.25	$1.12	$1.00

GOLD INSERT MACHINED PIN

- Anti-wicking very high quality
- Ideal for professional / portable or field service equipment
- 0.1" (2.54mm) pitch

Pins	Width	Cat.	Qty 1+	Qty 10+	Qty 25+
6	0.3"	PI6450	$1.40	$1.25	$1.10
8	0.3"	PI6452	$1.55	$1.40	$1.25
14	0.3"	PI6454	$1.75	$1.60	$1.40
16	0.3"	PI6456	$2.05	$1.85	$1.65
18	0.3"	PI6458	$3.00	$2.70	$2.40
20	0.3"	PI6460	$3.30	$2.95	$2.65
22	0.3"	PI6462	$3.40	$3.05	$2.70
28	0.6"	PI6466	$4.00	$3.60	$3.20
40	0.6"	PI6468	$5.60	$5.05	$4.50

IC SOCKET STRIPS

WIRE WRAP PINS

- Gold insert
- 0.1" (2.54mm) pitcl
- Machined pin

Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
20 Way	PI6473	$7.40	$6.65	$5.90
32 Way	PI6472	$10.90	$9.80	$8.70

STANDARD PINS

- Gold insert
- 0.1" (2.54mm) pitch
- Machined pin

Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
32 Way	PI6470	$4.90	$4.40	$3.90

ZIF SOCKETS

Zero Insertion Force. Drop the device in and close the lever to contact pins. Ideal for production testing.

Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
18	PI6480	$5.60	$5.00	$4.45
28	PI6483	$7.90	$7.10	$6.30
40	PI6484	$8.90	$8.00	$7.10

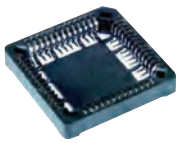
PLCC SOCKETS - THROUGH HOLE

- Gold plated phosphor bronze contacts.
- Height: 7.7mm

Size	Size L X W Mm	Cat.	Qty 1+	Qty 10+	Qty 25+
28 Pin	18 x 18	PI6600	$3.65	$3.30	$2.90

SURFACE MOUNT

- Silver plated phosphor bronze contacts
- Height: 4.5mm



Size	Size L X W Mm	Cat.	Qty 1+
84 pin	36 x 36	PI6630	$1.20

Smart Cards

WAFER CARDS

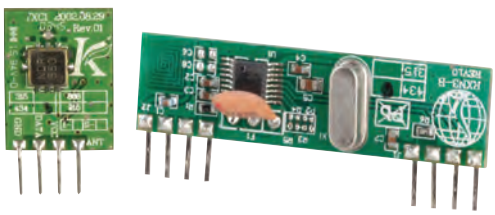
With PIC16F84A + 24LC16B Inbuilt (GOLD). This is a multi-chip 'smart card' based on the PIC 16F84A and is coupled with a 24LC16B EEPROM, and compatible with most reader/programmer units available.
- 16K memory
- ISO 7816-1 compatible pin-out and card body
- DC to 10 MHz operating speed
- Reprogrammable with code protection
- 1024 x 14 on-chip programmable memory
- 64 x 8 internal EEPROM memory
- Enhanced code protection
- Greater than 1,000,000 Write / Erase cycles

	Cat.	Qty 1+	Qty 10+	Qty 25+
Gold	ZZ8800	$6.90	$6.20	$4.80

Wireless Systems

433MHZ WIRELESS MODULES

Pre-built 433MHz wireless transmitter / receiver modules featuring ASK encoding and are ideal for devices using short data bursts such as remote controls, trigger pulses etc.



SPECIFICATIONS	ZW3100	ZW3102
Output Power	3dBm	3dBm
Supply Voltage	3VDC	5VDC
Supply Current	10mA max	10mA max
Data Rate	300bps to 10kbps	300bps to 10kbps
PCB (Excl Pins)	18.5(H) x 14.5(W)mm	42(H) x 11(W)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Transmitter	ZW3100	$16.90	$15.20	$13.50
Receiver	ZW3102	$16.90	$15.20	$13.50

Riely Stammers-Hozier likes to

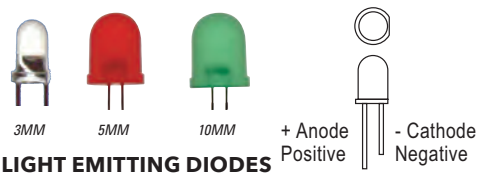
think. possible.

"3D Printing: As new design software becomes more user-friendly and brought into the education system, more and more people will go out of their comfort zone to model and print anything they dream of. As technology evolves, printing will become higher quality, faster, cheaper, and more diverse with new materials."

For next day delivery, or Click and Collect, see page 5

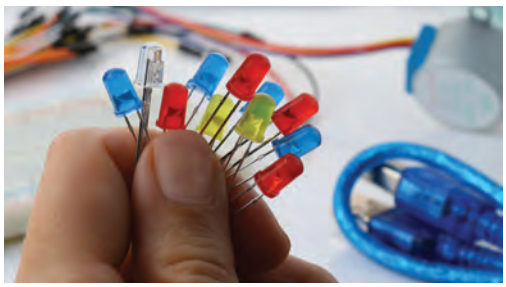
Standard LEDs

Viewing Angle	Is the complete angle where the luminous intensity is half the on-axis intensity.
Wavelength	Dominant Wavelength of the light emitted in nm (nanometers). This determines the colour of the LED.
IF Typical	Continuous forward current in mA to obtain typical optical characteristics.
VF Typical	Continuous forward voltage in Volts to obtain typical optical characteristics.
IF Max	Maximum continuous forward current in mA at 25ºC.
VDD Typical	Operating voltage to obtain typical optical characteristics.
VDD Max	Absolute maximum supply voltage at 25ºC.
IV Typical	Light emitted from the LED is quantified by a single point, ie the on-axis luminous intensity value in mcd (millicandela) at IF Typical.



LIGHT EMITTING DIODES

- Luminous intensity (IV) does not represent total light output from an LED. Both the luminous intensity & the spatial radiation pattern (viewing angle) must be taken into account
- If two LEDs have the same luminous intensity value, the lamp with the larger viewing angle will have the higher total light output
- Maximum luminous intensity can be achieved by operating the LED in pulsed mode, or maximum continuous forward current



3MM LEDS

OPTICAL & ELECTRONIC CHARACTERISTICS									PREFERRED VALUES SERIES RESISTOR (Ω) FOR						
Size	Viewing Angle	Colour	Lens	Wavelength, Chromatic Co-Ord.	IF Typical	VF Typical	IV Typical	Max Cont. If Max	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
3mm	45°	Red	Diffused	650nm	15mA	2.3V	8mcd	15mA	180	470	680	ZD0100	$0.31	$0.27	$0.21
3mm	15°	Red	Waterclear	660nm	20mA	1.8V	1500mcd	30mA	160	360	510	ZD0102	$0.90	$0.81	$0.63
3mm	20°	Red	Waterclear	625nm	20mA	2.0V	2800mcd	50mA	150	360	510	ZD0104	$1.80	$1.60	$1.25
3mm	15°	Red	Waterclear	625nm	20mA	2.1V	7200mcd	30mA	150	360	510	ZD0106	$5.50	$4.95	$3.85
3mm	45°	Orange	Diffused	625nm	20mA	1.9V	30mcd	30mA	160	360	510	ZD0119	$0.44	$0.39	$0.30
3mm	50°	Yellow	Diffused	585nm	20mA	2.1V	10mcd	20mA	150	360	510	ZD0110	$0.31	$0.27	$0.21
3mm	20°	Yellow	Waterclear	588nm	20mA	2.0V	3000mcd	50mA	150	360	510	ZD0112	$2.15	$1.95	$1.50
3mm	15°	Yellow	Waterclear	588nm	20mA	2.2V	7200mcd	50mA	150	360	510	ZD0114	$4.90	$4.40	$3.45
3mm	50°	Green	Diffused	573nm	20mA	2.3V	40mcd	20mA	130	330	470	ZD0120	$0.31	$0.27	$0.21
3mm	20°	Green	Waterclear	568nm	20mA	2.1V	500mcd	30mA	150	360	510	ZD0122	$1.80	$1.60	$1.25
3mm	20°	Green	Waterclear	520nm	20mA	3.2V	6500mcd	20mA	91	300	470	ZD0124	$7.90	$7.10	$5.55
3mm	15°	Aqua	Waterclear	505nm	20mA	3.5V	4000mcd	30mA	30	75	270	ZD0126	$6.70	$6.05	$4.70
3mm	15°	Blue	Waterclear	465nm	20mA	3.3V	1500mcd	20mA	82	300	430	ZD0130	$3.40	$3.05	$2.40
3mm	15°	Blue	Waterclear	470nm	20mA	3.2V	6000mcd	30mA	91	300	430	ZD0132	$7.40	$6.65	$5.20
3mm	15°	White	Waterclear	0.31/0.32nm	20mA	3.2V	1000mcd	20mA	91	300	430	ZD0140	$3.40	$3.05	$2.40
3mm	20°	White	Waterclear	0.31/0.32nm	20mA	3.2V	4300mcd	30mA	91	300	430	ZD0142	$4.90	$4.40	$3.45

5MM LEDS

OPTICAL & ELECTRONIC CHARACTERISTICS									PREFERRED VALUES SERIES RESISTOR (Ω) FOR						
Size	Viewing Angle	Colour	Lens	Wavelength, Chromatic Co-Ord.	IF Typical	VF Typical	IV Typical	Max Cont. If Max	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
5mm	50°	Red	Diffused	700nm	20mA	2.3V	12mcd	30mA	130	330	470	ZD0150	$0.38	$0.34	$0.26
5mm	15°	Red	Waterclear	660nm	20mA	1.7V	1200mcd	30mA	160	360	510	ZD0152	$1.05	$0.94	$0.73
5mm	15°	Red	Waterclear	625nm	20mA	2.0V	3800mcd	50mA	150	360	510	ZD0154	$1.80	$1.60	$1.25
5mm	15°	Red	Waterclear	625nm	20mA	2.1V	9600mcd	50mA	150	360	510	ZD0156	$4.25	$3.85	$3.00
5mm	15°	Red	Waterclear	624*nm	30mA	2.1V	23500mcd	30mA	100	240	330	ZD0293	$6.90	$6.20	$4.70
5mm	8°	Red	Waterclear	616nm	50mA	2.1V	20000mcd	50mA	62	150	200	ZD1790	$5.50	$4.95	$3.85
5mm	40°	Orange	Diffused	635nm	20mA	2.0V	80mcd	30mA	150	360	510	ZD0169	$0.38	$0.34	$0.26
5mm	50°	Yellow	Diffused	585nm	20mA	2.1V	70mcd	30mA	150	360	510	ZD0160	$0.38	$0.34	$0.26
5mm	15°	Yellow	Waterclear	590nm	20mA	2.2V	2500mcd	20mA	150	360	510	ZD0162	$1.80	$1.60	$1.25
5mm	15°	Yellow	Waterclear	588nm	20mA	2.0V	4000mcd	50mA	150	360	510	ZD0164	$2.05	$1.85	$1.45
5mm	15°	Yellow	Waterclear	588nm	20mA	2.3V	12000mcd	50mA	130	330	470	ZD0166	$5.30	$4.75	$3.70
5mm	15°	Yellow	Waterclear	591*nm	30mA	2.1V	23500mcd	30mA	100	230	330	ZD0295	$6.90	$6.20	$4.70
5mm	50°	Green	Diffused	570nm	20mA	2.3V	80mcd	30mA	130	330	470	ZD0170	$0.38	$0.34	$0.26
5mm	30°	Green	Waterclear	525nm	20mA	3.5V	7500mcd	30mA	75	270	430	ZD0172	$2.90	$2.60	$2.05
5mm	15°	Green	Waterclear	515nm	20mA	3.5V	8500mcd	30mA	75	270	430	ZD0174	$5.30	$4.75	$3.70
5mm	20°	Green	Waterclear	525nm	20mA	3.2V	10000mcd	20mA	91	300	430	ZD0176	$6.70	$6.05	$4.70
5mm	15°	Green	Waterclear	527*nm	30mA	3.2V	64600mcd	30mA	62	200	300	ZD0292	$7.90	$7.20	$5.50
5mm	15°	Aqua	Waterclear	505nm	20mA	3.5V	7000mcd	30mA	75	270	430	ZD0178	$5.50	$4.95	$3.85
5mm	40°	Blue	Diffused	470nm	20mA	3.3V	350mcd	30mA	82	300	430	ZD0185	$2.90	$2.60	$2.05
5mm	15°	Blue	Waterclear	468nm	20mA	3.2V	2500mcd	30mA	91	300	430	ZD0180	$3.40	$3.05	$2.40
5mm	15°	Blue	Waterclear	470nm	20mA	3.2V	6500mcd	30mA	91	300	430	ZD0182	$5.50	$4.95	$3.85
5mm	15°	Blue	Waterclear	470*nm	30mA	3.2V	23500mcd	30mA	62	200	300	ZD0291	$6.90	$6.20	$4.70
5mm	30°	White	Waterclear	0.31/0.31nm	20mA	3.2V	4000mcd	30mA	91	300	430	ZD0190	$3.40	$3.05	$2.40
5mm	20°	White	Waterclear	0.31/0.32nm	20mA	3.2V	7000mcd	30mA	91	300	430	ZD0192	$4.60	$4.15	$3.20
5mm	15°	White	Waterclear	0.31/0.32nm	20mA	3.3V	18000mcd	30mA	82	300	430	ZD0195	$6.80	$6.10	$4.75
5mm	15°	White	Waterclear	0.29/0.29*nm	30mA	3.2V	45000mcd	30mA	62	200	300	ZD0290	$4.50	$4.05	$3.15
5mm	30°	UV	Waterclear	405nm	20mA	3.3V	60mcd	20mA	91	300	430	ZD0260	$6.80	$6.10	$4.75

Standard LEDs CONTINUED

10MM LEDS

Size	Viewing Angle	Colour	Lens	Wavelength, Chromatic Co-Ord.	IF Typical	VF Typical	IV Typical	Max Cont. If Max	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
				OPTICAL & ELECTRONIC CHARACTERISTICS					PREFERRED VALUES SERIES RESISTOR (Ω) FOR						
10mm	16°	Red	Diffused	635nm	20mA	2.0V	8mcd	20mA	150	360	510	ZD0200	$0.94	$0.84	$0.65
10mm	30°	Red	Waterclear	625nm	20mA	2.0V	5600mcd	50mA	150	360	510	ZD0201	$1.80	$1.60	$1.25
10mm	30°	Red	Waterclear	625nm	20mA	2.0V	9600mcd	50mA	150	360	510	ZD0202	$3.40	$3.05	$2.40
10mm	20°	Orange	Waterclear	610nm	20mA	2.4V	10000mcd	50mA	130	330	470	ZD0225	$4.25	$3.85	$3.00
10mm	35°	Yellow	Diffused	585nm	20mA	2.0V	90mcd	30mA	150	360	510	ZD0210	$0.94	$0.84	$0.65
10mm	30°	Yellow	Waterclear	588nm	20mA	2.0V	6000mcd	50mA	150	350	510	ZD0211	$1.80	$1.60	$1.25
10mm	30°	Yellow	Waterclear	588nm	20mA	2.2V	9600mcd	50mA	150	360	510	ZD0212	$3.40	$3.05	$2.40
10mm	50°	Green	Diffused	570nm	20mA	2.2V	100mcd	20mA	150	360	510	ZD0205	$0.94	$0.84	$0.65
10mm	30°	Green	Waterclear	525nm	20mA	3.1V	9000mcd	20mA	100	300	430	ZD0206	$4.90	$4.40	$3.45
10mm	30°	Blue	Waterclear	470nm	20mA	3.5V	1200mcd	30mA	75	270	430	ZD0215	$4.90	$4.40	$3.45
10mm	30°	White	Waterclear	0.25/0.26nm	20mA	3.2V	5000mcd	30mA	91	300	430	ZD0220	$4.90	$4.40	$3.45

5 X 2MM RECTANGULAR LEDS

Size	Viewing Angle	Colour	Lens	Wavelength, Chromatic Co-Ord.	IF Typical	VF Typical	IV Typical	Max Cont. If Max	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
				OPTICAL & ELECTRONIC CHARACTERISTICS					PREFERRED VALUES SERIES RESISTOR (Ω) FOR						
5 x 2mm	155°	Red	Diffused	643nm	20mA	2.3V	5mcd	20mA	130	330	470	ZD0230	$0.62	$0.55	$0.43
5 x 2mm	155°	Yellow	Diffused	590nm	20mA	1.9V	10mcd	20mA	160	360	510	ZD0234	$0.62	$0.55	$0.43
5 x 2mm	155°	Green	Diffused	573nm	20mA	2.3V	15mcd	20mA	130	330	470	ZD0232	$0.62	$0.55	$0.43

5MM SUPERFLUX

5mm	90°	White	Waterclear	0.29/0.29*nm	35mA	3.6V	3000mcd	35mA	43	160	240	ZD0020	$4.50	$4.05	$3.15

BI LEDS

Size	Viewing Angle	Colour	Lens	Wavelength, Chromatic Co-Ord.	IF Typical	VF Typical	IV Typical	Max Cont. If Max	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
				OPTICAL & ELECTRONIC CHARACTERISTICS					PREFERRED VALUES SERIES RESISTOR (Ω) FOR						*Cree®
3	65°	Red	Diffused	605nm	20mA	2.1V	20mcd		150	360	510	ZD0248	$1.55	$1.40	$1.10
	65°	Green	Diffused	570nm	20mA	2.3V	45mcd	30mA							
5	90°	Red	Diffused	625nm	20mA	2.1V	7.6mcd	30mA	150	360	510	ZD0250	$1.55	$1.40	$1.10
	90°	Green	Diffused	567nm	20mA	2.2V	10mcd	30mA							
10	75°	Red	Diffused	625nm	20mA	2.0V	10mcd	30mA	150	360	510	ZD0255	$1.80	$1.60	$1.25
	75°	Green	Diffused	570nm	20mA	2.1V	10mcd	30mA							
3	75°	Orange	Diffused	625nm	20mA	2.0V	4.5mcd	30mA	150	360	510	ZD0249	$1.55	$1.40	$1.10
	75°	Green	Diffused	570nm	20mA	2.1V	6mcd	30mA							
5	90°	Orange	Diffused	625nm	20mA	2.1V	70mcd	30mA	150	360	510	ZD0252	$1.65	$1.50	$1.15
	90°	Green	Diffused	568nm	20mA	2.2V	80mcd	30mA							
10	75°	Red	Diffused	625nm	20mA	2.0V	10mcd	30mA	150	360	510	ZD0256	$2.15	$1.95	$1.50
	75°	Green	Diffused	570nm	20mA	2.1V	10mcd	30mA							

TRI LEDS

5 Common Cathode	45°	Red	Diffused	625nm	20mA	2.0V	600mcd	30mA	150	360	510	ZD0270	$9.30	$8.35	$6.50
	45°	Green	Diffused	520nm	20mA	3.5V	1000mcd	30mA	75	270	430				
	45°	Blue	Diffused	470nm	20mA	3.5V	200mcd	30mA	75	270	430				
5 Superflux Common Anode	60°	Red	Waterclear	643nm	20mA	1.8V	200mcd	20mA	160	360	510	ZD0010	$7.10	$6.40	$4.95
	60°	Green	Waterclear	528nm	20mA	3.2V	900mcd	20mA	91	300	470				
	60°	Blue	Waterclear	468nm	20mA	3.2V	150mcd	20mA	91	300	470				

FLASHING LEDS

	Size (mm)	Viewing Angle	Colour	Lens	Wavelength, Chromatic Co-ord.	IF Typical	VDD Typical	IV Typical	Absolute max VDD Max	Cat.	Qty 1+	Qty 10+	Qty 25+
					OPTICAL & ELECTRONIC CHARACTERISTICS								
Flashing	5	50°	Red	Diffused	630nm	20mA	5.0V	50mcd	10mA	ZD0240	$1.80	$1.60	$1.25
Flashing	5	30°	Red	Diffused	643nm	20mA	5.0V	60mcd	10mA	ZD1785	$2.90	$2.60	$2.05
Flashing	5	45°	Yellow	Diffused	597nm	20mA	5.0V	35mcd	10mA	ZD0244	$1.80	$1.60	$1.25
Flashing	5	45°	Green	Diffused	568nm	20mA	5.0V	35mcd	10mA	ZD0242	$1.80	$1.60	$1.25
Flashing	5	40°	Blue	Diffused	470nm	20mA	5.0V	900mcd	10mA	ZD0245	$2.90	$2.60	$2.05
Flashing	10	50°	Red	Diffused	660nm	20mA	5.0V	50mcd	10mA	ZD1965	$3.55	$3.20	$2.50

TRI COLOUR SEQUENCING LEDS

Tri Colour Sequencing	5	30°	Red	Waterclear	625nm	20mA	4.5V	500mcd	4.5mA	ZD0247	$9.50	$8.55	$6.65
		30°	Green	Waterclear	520nm	20mA	4.5V	5000mcd	4.5mA				
		30°	Blue	Waterclear	470nm	20mA	4.5V	2000mcd	4.5mA				

For next day delivery, or Click and Collect, see page 5

LED Packs - Standard & SMD

LED PACKS

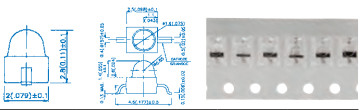
- 5-20mcd @ 20mA typical

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red - 3mm Pkt 100	ZD1692	$16.90	$15.20	$11.80
Red - 5mm Pkt 100	ZD1690	$21.90	$19.70	$15.30
Assorted Pkt 100 - mixed colours, 3-5mm - bonus 10 x 5mm mounting hardware!	ZD1694	$36.90	$33.20	$25.80

SMD LEDS

Range of 3 colours in "Gull Wing" style package.

- Water clear lens



	Pkt	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	10	625nm - 70mcd @ 20mA	ZD2000	$4.30	$3.85	$3.00
Yellow	10	590nm- 40mcd @ 20mA	ZD2005	$4.80	$4.30	$3.30
Green	10	565nm - 100mcd @ 20mA	ZD2010	$4.30	$3.85	$3.00

LED Accessories

LED CLIPS

- Black
- 3mm requires a 4mm panel hole, 5mm needs a 6.35mm
- Simply push clip in panel & insert LED

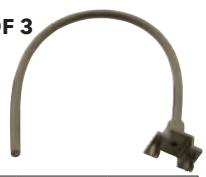
		Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 20	3mm	HP1100	$4.30	$3.85	$3.00
Pkt 20	5mm	HP1102	$4.30	$3.85	$3.00
Pkt 100	5mm	HP1103	$19.90	$17.90	$13.90

10MM LED BEZELS

- Black, requires a 14mm panel hole and simply snaps in. LED not included

	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 5	HP1110	$10.90	$9.80	$7.60

100MM LIGHT TRANSPORTERS - PACK OF 3



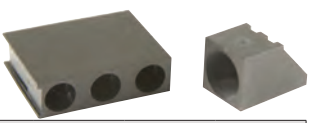
These fibre optic light transporters are simply clipped over the LED and mounted to the panel. With high light conductivity the intensity will not diminish. Much easier to install than LED clips!

- Hole cut-out size: 3.5mm

	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
Suit SMD LEDs	3	HP1192	$15.90	$14.30	$11.00
Suit 3mm LEDs	3	HP1193	$15.90	$14.30	$11.00

LED MOUNTS

3MM 3 WAY - HP1118
5MM SINGLE 45° - HP1114

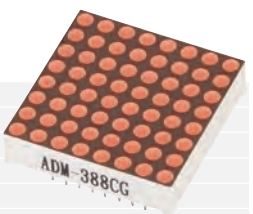


	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 20	3mm	HP1118	$9.90	$8.90	$6.95
Pkt 20	5mm	HP1114	$7.40	$6.65	$5.20
Pkt 100	5mm	HP1115	$21.90	$19.70	$15.30

LED Matrix Displays

8X8 LED MATRIX

A 8x8 LED matrix module for simple graphical output display. Ideal for display of symbols, basic data, or graphics. 16 pin connection with 8 anode pins for column and 8 cathode pins for rows. Available in red or green.



SPECIFICATIONS	
Peak Wavelength	568nm
Luminous Intensity	15mcd
Forward Voltage(Vf)	2.2V
Forward Current (If)	40mA
Dimensions	32(H) x 32(W) x 8(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Green	ZD1800	$6.90	$6.20	$4.80
Red	ZD1802	$6.90	$6.20	$4.80

8X8 RGB LED MATRIX

A full 8x8 LED Matrix Display with a matte black background measuring 60mm x 60mm. Designed to mount directly on the XC4498 RGB LED Driver module. These modules can be stacked for extended displays.

- Full 8x8 Matrix controlled through 32 pins (8 + 8 x 3)
- Flush edges for creating extended displays
- 192 LEDs in 64 pixels

	Cat.	Qty 1+	Qty 4+	Qty 25+
RGB	ZD1810	$22.90	$20.90	$15.90

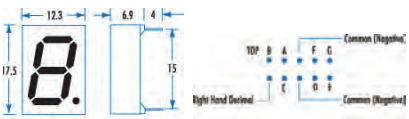
7 Segment LED Displays

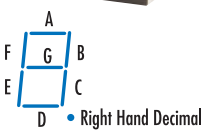
SMALL DISPLAYS

COMMON CATHODE

Standard 7 segment LED module for numerical output display. Designed to be fitted in close format to allow display of larger numbers.

SPECIFICATIONS	
Digit Dimensions	13.2(H) x 7.6(W)mm
Digit Height	17.5(H) x 12.3(W) x 7(D)mm
Common Part Number	FND500 / LTS543R / S505RWB
Forward voltage (Vf)	2.1V
Forward current (If)	10mA



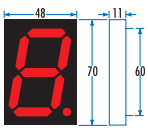


Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
Red	Common Cathode	ZD1855	$4.00	$3.60	$2.80
Red	Common Anode	ZD1857	$4.00	$3.60	$2.80
Blue	Common Cathode	ZD1856	$6.90	$6.20	$4.80

SUPER LARGE DISPLAY - RED

COMMON CATHODE

Super large format 7 segment LED module for numerical output display. Designed to be fitted in close format to allow display of larger numbers.



SPECIFICATIONS	
Digit Dimensions	56.8 (H) x 32.4 (W)mm
Package Dimensions	69.7(H) x 47.8(W) x 12(D)mm
Luminous Intensity (IV)	4mcd per segment @ 10mA
Viewing Angle	150°
Forward Voltage (VF)	Segments 8V, decimal 2V
Forward Current (IF)	50mA
Face Colour	Grey
Max Current Per Segment	30mA
Forward Current (IF)	10mA

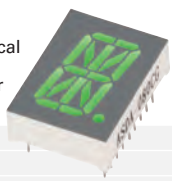
	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	ZD1850	$10.90	$9.90	$7.90

16 Segment LED Displays

GREEN 16 SEGMENT LED DISPLAY

COMMON CATHODE

Full function 16 segment LED module for alphabetical and numerical output display. Designed to be fitted in close format to allow display of words and larger numbers.



SPECIFICATIONS	
Digit Dimensions	20.3(H) x 11(W)mm
Package Dimensions	27.7(H) x 20.0(W) x 8.5(D)mm
Forward Voltage (VF)	2.2V
Forward Current (IF)	50mA

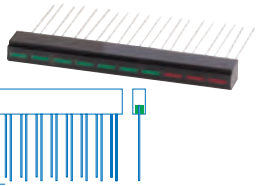
Colour		Cat.	Qty 1+	Qty 4+	Qty 10+
Green	Common Cathode	ZD1824	$6.90	$6.20	$4.80
Green	Common Anode	ZD1826	$6.90	$6.20	$4.80

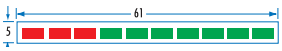
Bar Graphs & Displays

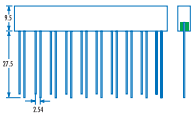
LED BAR GRAPH

5mm x 2.5mm rectangular LEDs mounted in a black housing. Ideal for VU meters or where any visual level is required.

- VU 7 Green & 3 Red



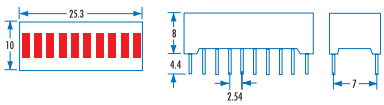


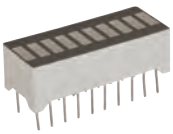


	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1702	$7.40	$6.65	$5.20

DIL LED

Ten individual LED elements housed in a 20 pin package to form a compact linear bar display which may be stacked end to end to create bar graphs of different lengths. Will plug into a standard 20 pin IC socket. 10 red LEDs. Typical intensity is 2.2mcd per LED.



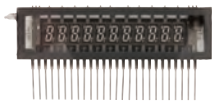


	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1704	$5.90	$5.30	$4.10

11 DIGIT FLUORO DISPLAY

Vacuum fluorescent displays - still look the best. Each digit measures 6.0(H) x 3.5(W) mm, 11 digits in all. The display also features an apostrophe in the top right hand corner of the digits, and a semicolon (;) in the bottom in all 11 digits.

- Futaba brand
- Electrical and mechanical data is included



	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1880	$3.90	$3.10	$2.40

DRIVER IC ALLEGRO BRAND UDN6118A FOR FLUORO DISPLAY ABOVE.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1882	$12.90	$11.60	$9.00

4 DIGIT FIELD EFFECT LCD

Suitable for meters, gauges, timers, counters and 12/24hr clocks. Extremely easy to drive and no external driver IC required. 40 pin package. Use Cat PI6470 for socket mounting (2pc required)

- Driving voltage: 3 volts
- Digit height: 12.7mm
- View area: 45 x 17 / Display size: 51 x 30.5mm
- Pin spacing: 2.5mm)

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1886	$12.90	$11.60	$9.00

Bezels - Low Voltage

3MM LED BEZELS - 2V

Chrome housing.

- 2V, 15 - 30mA
- Panel hole 5mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2615	$4.25	$3.85	$3.00
Green	SL2616	$4.25	$3.85	$3.00
Blue	SL2617	$5.60	$5.05	$3.90

5MM LED BEZELS - 2V

Chrome housing.

- 2V, 15 - 30mA
- Panel hole 8mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2610	$2.90	$2.60	$2.05
Green	SL2612	$2.90	$2.60	$2.05
Blue	SL2613	$6.80	$6.10	$4.75

MINI CHROME BEZELS - 12V

These are very classy and have a bright 3mm LED in the chrome casing which is only 10mm long.

- Hole cutout of only 5mm
- Supplied with flying leads about 100mm long
- Includes dropping resistor

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2644	$4.90	$4.40	$3.45
Green	SL2645	$4.90	$4.40	$3.45

CHROME BEZEL LED - 24V

Classy chrome casing with 3mm LED. Supplied with flying leads with resistor, 5mm hole required.

	Cat.	Qty 1+	Qty 10+	Qty 25+
Green	SL2646	$4.90	$4.40	$3.45
Red	SL2647	$4.90	$4.40	$3.45

IP67 CHROME LED BEZELS - 12V

IP67 (waterproof) rated LED lamp bezel in a chrome housing. Perfect for applications where protection from dust and water ingress are required.

- 12VDC
- Panel hole: 8mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2625	$9.90	$8.70	$6.70
Green	SL2627	$9.90	$8.70	$6.70

LOW VOLTAGE BEZELS - 6 & 12V

Accepts Lilliput globes.

- Panel hole 10mm
- Length 29mm
- Requires Lilliput globes
  SL2650 6V
  SL2652 12V

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2620	$2.80	$2.50	$2.25
Green	SL2622	$2.80	$2.50	$2.25

LILLIPUT GLOBES TO SUIT BEZELS

- Total length 17mm
- Width 4.5mm
- Glass length 8mm

	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	200mA	SL2650	$1.50	$0.99	$0.90
12V	120mA	SL2652	$1.50	$0.99	$0.90

BEZEL SMALL - 12V

Red, sealed, 12 volt bright bezel for any application.

- Small size
- Panel hole 7mm
- Length 34mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2640	$2.50	$2.00	$1.80

BEZEL MEDIUM - 12V

Red, sealed, ideal for cars as an indicator for driving lights, etc.

- Also suitable for burglar alarms
- Panel cut out 10mm
- Rectangular lens 13 x 16mm
- Length 45mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2642	$2.50	$2.00	$1.80

12V BEZEL LARGE - 12V

Perfect for car alarms.

- Orange lens which measures 20 x 20mm
- Panel hole 15mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange	SL2694	$3.90	$3.10	$2.70

LED Bezels - High Voltage

CHROME BEZELS - 240V

Very smart units.

- Length 32mm
- 70mm leads
- Panel hole 7mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2632	$4.25	$3.85	$3.40
Green	SL2633	$4.25	$3.85	$3.40

BEZEL - 240V

Red, spade lug connections.

- Small round flat end
- Total length 45mm
- 10mm diameter
- Cut out hole 9mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL2630	$2.40	$2.15	$1.90

Bye, Bye Torch Globes. We will be phasing out many of these traditional filament globes over the next few years. LED globes are just too superior. If you still use these types, start hoarding them now!

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

monthly specials & promotions
Lookout for our monthly promotions in store and online.

For next day delivery, or Click and Collect, see page 5

Infrared LEDs - Receivers

BP104 PHOTODIODE

Small square device measuring 4(W) x 5.4(L) x 2(D)mm.

SPECIFICATIONS	ZD1947
Reverse Voltage	20V max
Forward Voltage	1.3V@100mA
Spectral Sensitivity	34uA @ 5V
Wavelength Of Max. Sens	950nm
Spectral Range Of Sensitivity	800 to 1100nm
Half Angle	±60°
Dark Current	2nA @ 10V
Open-Circuit Voltage	330mV
Short-Circuit Current	17uA
Rise And Fall Time	20ns @ 5V
Capacitance	48pF
Cathode Marking	flag on leg

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1947	$5.40	$4.85	$3.80

5MM PHOTODIODE

Radiant sensitive area (receiving) is on the side of the device. Size 6.7(H) x 4.8(W)mm.

SPECIFICATIONS	ZD1948
Reverse Voltage	32V
Spectral Range Of Sensitivity	970nm
Reverse Dark Current	5nA
Turn On/Off Time (Typical)	50ns
Capacitance	25pf
Open-Circuit Voltage	350mV

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1948	$1.85	$1.65	$1.30

INFRARED PHOTOTRANSISTOR

5mm LED with a clear transparent lens.
- Collector: Short leg
- Emitter: Long Leg

SPECIFICATIONS	ZD1950		
Npn Collector-To-Emmiter D'down Voltagezz	30V	Collector dark current	100nA@10V(Vce)
Emitter-To-Collector Breakdown Voltage	5V	Rise and fall time	3uS @ 5V (Vce)
Collector-To-Emitter Saturation Voltage	0.8V max	Power dissipation	100mW max

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1950	$1.85	$1.65	$1.30

IR LED RECEIVER

Consists of an infrared photo diode and signal processing circuitry, (amplifier, limiter, bandpass filter & demodulator). It will detect the modulated pulse from an IR Remote Control & give a TTL level output.
- Data sheet available - see website

SPECIFICATIONS	ZD1952		
Supply Voltage	5V typ.	Directivity Characteristics	
Supply Voltage Max	5.5V	Horizontal:	45°
Current Consumption	0.95mA	Vertical:	35°
Arrival Distance Length	12m typ.		
Centre Frequency	37.9kHz		

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1952	$9.90	$8.90	$6.90

TSOP4136 IR RECEIVER

Consists of PIN diode, pre-amplifier, AGC, pass filter, and demodulator. The main benefits are high speed data rates, short burst transmission codes, and suits cable TV remotes.

SPECIFICATIONS	ZD1953		
Supply Voltage	4.5-5.5V / Max 6V	Directivity Characteristics	
Current Consumption	1.2mA	Horizontal:	45°
Arrival Distance Length	20m	Vertical:	35°
Centre Frequency	36kHz		

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1953	$3.40	$3.05	$2.40

Infrared LEDs - Transmitters

3MM EMITTING DIODE

With a blue transparent lens. Similar specifications as our ZD1945.

SPECIFICATIONS	ZD1946
Forward Current (If)	50mA
Peak Forward Current (Lp)	100mA
Forward Voltage (Vf)	1.3V
Power Dissipation (Pd)	100mW max

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1946	$1.85	$1.65	$1.30

5MM EMITTING DIODE

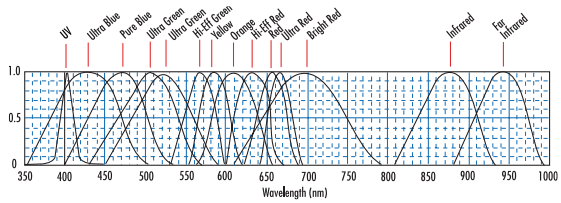
With a blue transparent lens.

SPECIFICATIONS	ZD1945		
Forward Current (Lf)	50mA max	Peak Spectral Wavelength (Ir)	940nm@20mA
Peak Forward Current (Lp)	1.2A	Spectral Band-width (Di)	50nm@20mA
Forward Voltage (Vf)	1.2V @ 20mA	Reverse Voltage (Vr)	5V max
Power Dissipation (Pd)	100mW max	Viewing Angle	30°
		Material	GaAs

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1945	$1.85	$1.65	$1.30

tech talk Frequency Response Curve

Normalised Frequency Response Curve of LED Capability.



Lasers

10MW LASER DIODE

10mW laser diode component
- Red in colour
- Supplied with 7mm dia collimating lens

SPECIFICATIONS	ZD1955		
Threshold Current	24mA		
Operating Voltage	2.4V	LD reverse voltage	2V PD
Operating Current	40mA	Reverse voltage	30V
Optical Power	10mW	Dimensions	TO-18 (5.6mm dia)

Size	Cat.	Qty 1+	Qty 10+	Qty 25+
TO-18	ZD1955	$9.90	$8.90	$6.95

LED Tester

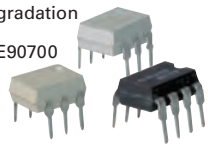
LED TESTER

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can be made simultaneously.
- Operating voltage: 9V (battery required)
- Test currents: 1mA, 2.5mA, 5mA, 10mA, 20mA,50mA
- Dimensions: 58 x 44 x 25mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0274	$16.90	$15.20	$13.50

Optocouplers

NON - ZERO CROSSING

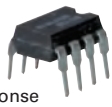


- Excellent stability - IR emitting diode has low degradation
- High isolation voltage - minimum 7500VAC peak
- Underwriters Laboratory (UL) recognised - file# E90700
- Recommended for 240VAC RMS applications

- Vending machines
- Industrial controls
- Triac driver
- Solid state relay
- Motor control
- Traffic lights

Type	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
MOC3020/MOC3021	6	ZD1920	$4.80	$4.30	$3.35

PHOTOTRANSISTOR OPTOCOUPLER



- AC line / digital logic isolator
- Relay contact monitor
- Digital logic / digital logic isolator
- Power supply monitor
- Telephone / telegraph line receiver
- Small package size and low cost
- Twisted pair line receiver
- Excellent frequency response
- High frequency power supply
- UL recognised - file# E90700 feedback control

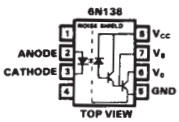
Type	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
4N28/4N25	6	ZD1928	$2.40	$2.15	$1.70

DARLINGTON OPTOCOUPLER

- Low current - 0.5mA
- Superior CTR2000%
- Superior CMR-10 kV/µs
- Double working voltage 480VRMS
- CTR guaranteed 0-70°C
- UL recognised file# E90700
- Dual channel - HCPL2730, HCPL2731

Applications:

- Digital logic ground isolation
- Telephone ring detector
- EIA-RS232C line receiver
- High common mode noise line receiver
- µP bus location
- Current loop receiver



Type	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
6N138	8	ZD1940	$5.90	$5.30	$4.15

SMD OPTOCOUPLERS

type	pins	pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
4N35S	SOIC6	10	ZD1934	$14.90	$13.40	$10.40
TLP113	SOIC6	EA	ZD1941	$8.60	$7.75	$6.00

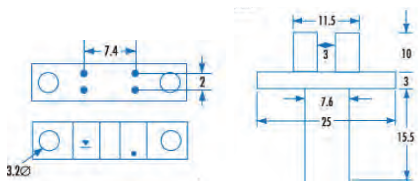
PHOTO INTERRUPTER

This device enables you to turn a circuit on and off optically. It consists of a moulded plastic housing with an IR LED facing a phototransistor across a gap. Any object in the gap will interrupt the IR beam and consequently switch the phototransistor on and off. The device is very fast and ideal for counting, timing or sensing. Full specs supplied with each unit.

- PCB or chassis mounting
- Low cost
- Rugged one piece construction
- Very fast

Application:

- Counter sensor
- Tachometer
- Opto ignition
- Edge sensor
- Tape end sensor



	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1901	$5.50	$4.95	$3.85

compatibility icons

To assist you in selecting compatible products for your preferred microcontroller, we have created two icons. They should help you select appropriate modules and hardware. If in doubt, ask our friendly team.

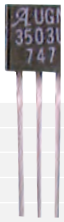
Arduino® Compatible

Raspberry Pi Compatible

Hall Effect Devices

HALL EFFECT SENSOR

UGN3503U HALL EFFECT SENSOR IC



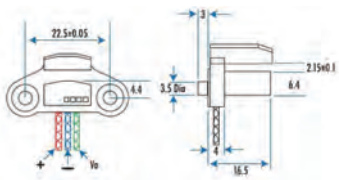
A miniature sensor to accurately track extremely small changes in magnetic flux density - changes generally too small to operate Hall effect switches. Applications include notch sensor, current monitor, gear tooth sensor, etc.

SPECIFICATIONS	ZD1902
Operating Voltage	4.5 - 6VDC
Supply Current	Typ. 9mA
Output Voltage	Typ. 2.5V DC
Output Resistance	50Ω
Size	4.5(W) x 4.5(H) x 1.5(D)mm

type	Cat.	Qty 1+	Qty 10+	Qty 25+
UGN3503U	ZD1902	$9.50	$8.55	$7.60

HKZ-101 HALL EFFECT SWITCH

A rugged Hall effect switch designed for automotive ignition applications. This device consists of a Hall effect semiconductor sensor separated across a small gap by a magnet. In its normal state the Hall sensor (with inbuilt output transistor) is conducting. It will sink up to 40mA between the impressive temperature range of -40 to +150°C. When an iron vane is introduced into the gap between the Hall element and the magnet, the output transistor switches off. The sensor is hermetically sealed, resistant to petroleum products and incorporates metal bushed mounting holes to facilitate fitting to a carrier plate, bracket etc. Lead connections: Red V+, Black earth, Green signal (on/off).



	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1900	$31.90	$28.70	$25.50

Pressure Sensor

PRESSURE DIFFERENTIAL SENSOR

The ZD1904 piezo resistive pressure sensor provides a very accurate and linear voltage output directly proportional to the applied pressure. The sensor housed a single monolithic silicon die with a strain gauge and thin film resistor network on each chip.

- 0°C to 85°C temperature compensation
- 0 to 10kPa (0 to 1.45 psi)
- 25mV full scale span

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD1904	$55.90	$50.30	$44.70

Proximity Sensor

IR ADJUSTABLE PROXIMITY SENSOR

An easy to use IR proximity sensor in adjustable threaded package for straightforward mounting.

- 5V supply for compatibility with logic level applications
- Use with Arduino by setting sensor pin to INPUT_PULLUP mode
- 3-80cm detect range (adjustable via trimpot)
- Modulated IR to avoid interference from ambient light
- Output can sink up to 100mA for driving relays directly

	Cat.	Qty 1+	Qty 10+	Qty 25+
IR Adjustable Proximity Sensor	ZD1906	$18.90	$16.90	$14.90

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For next day delivery, or Click and Collect, see page 5

Globes

ILLUMINATED DOORBELL GLOBE

Replacement globe for our doorbell SP0782 switch, can be used as a replacement for other brand doorbells.

- Length 27mm.
- Globe is 12V, but will work on lower voltages.

Cat.	Qty 1+	Qty 10+	Qty 25+
SL2720	$2.50	$2.00	$1.80

14V CAR ALARM SWITCH

REPLACEMENT GLOBES

Replacement globes for flashing switches / bezels for car alarms.

- BI - pin • TI • 14 volt • 2.54 lead spacing

Cat.	Qty 1+	Qty 10+	Qty 25+
SL2636	$4.90	$4.10	$3.60

Bye, Bye Torch Globes. We will be phasing out many of these traditional filament globes over the next few years. LED globes are just too superior. If you still use these types, start hoarding them now!

MINI LAMPS

A large range of various sizes & voltages of mini lamps.

- Supplied with wiring cable pre connected.

Qty Prices For One Type Only

SMALL SIZE	VOLTS	CAT.	COLOUR
Globe Size - 3(Ø) x 7mm	1.5	SL2680	White
Pvc Lead Length - 100mm	3	SL2681	Red
Current - 0.1A	6	SL2683	Blue
	9	SL2684	Green
	12	SL2685	Yellow
LARGE SIZE	**VOLTS**	**CAT.**	**COLOUR**
Globe Size - 4(Ø) z 10Mm	1.5	SL2670	White
PVC Lead Length - 150mm	3	SL2671	Red
Current - 0.1A	6	SL2673	Blue
	9	SL2674	Green
	12	SL2675	Yellow

Cat.	Qty 1+	Qty 10+	Qty 25+
All Types Each	$1.90	$1.40	$1.20

LILLIPUT GLOBES

- Total length 17mm
- Width 4.5mm
- Glass length 8mm

	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	200mA	SL2650	$1.50	$0.99	$0.90
12V	120mA	SL2652	$1.50	$0.99	$0.90

MINIATURE EDISON SCREW GLOBES

- Total length 27mm
- Width 9mm
- Glass length 14mm

	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	250mA	SL2654	$1.50	$0.90	$0.80
12V	100mA	SL2656	$1.50	$0.90	$0.80

MES means: 'Miniature Edison Screw'.

Torch Globes & Neons

90V NE2 NEON

Would you believe it? After about 100 years of orangey-red neons we now can get blue and green ones! You'll buy one out of curiousity!

- Strike voltage: 82V
- Needs 270k resistor in series for 240V operation.

	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange/Red	SL2690	$1.55	$1.40	$1.25
Blue	SL2695	$1.55	$1.40	$1.25
Green	SL2696	$1.55	$1.40	$1.25

BAKELITE GLOBE HOLDER

High quality MES globe holder with a round bakelite base.

- No soldering required.
- Holder can easily be screwed to a base plate.
- Diameter 33mm / Height 19mm.
- Suits SL2654/6
- Ideal as a simple pilot lamp

Cat.	Qty 1+	Qty 10+	Qty 50+
SL2659	$3.90	$3.10	$2.70

2.5V KRYPTON TORCH GLOBE - MES

- 300mA
- Suitable for 2 x 1.5V batteries
- Miniature Edison Screw

	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 2	SL3210	$3.50	$2.70	$2.40

4.8V KRYPTON TORCH GLOBE - MES

- 300mA
- Miniature Edison Screw

	Cat.	Qty 1+	Qty 10+	Qty 25+
Each	SL3211	$2.50	$2.00	$1.80

GLOBE HOLDER

Standard MES globe holder (Torch globes).

- Suits SL2654/6

Cat.	Qty 1+	Qty 10+	Qty 50+
SL2658	$1.50	$0.99	$0.90

Halogen Globes

12V 10W HALOGEN GLOBE

Halogen globe for illuminated fogger.

- 12V, 10 watts
- 4mm pin spacing
- Pin length: 8mm
- Total length: 30mm
- Bulb dia: 8mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 2	SL3217	$7.90	$7.20	$6.50

12V 50W HALOGEN GLOBE

Same as 100W unit, but this one is 50W.

	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 50W	SL2726	$7.90	$7.20	$6.50

12V 100W HALOGEN GLOBE

These are used in hand held spotlights.

- Fitting and contact is by 2 pins which are 6mm apart
- Length including pins is 40mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 100W	SL2724	$5.90	$5.20	$4.70

12V JC HALOGEN GLOBE

2 pin halogen globes.

- As used in some models of our garden lighting.
- Fitting and contact is by 2 pins, 22mm long, pin spacing: 3mm, 8mm dia, 8mm pins.

	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 20W	SL2722	$4.90	$4.10	$3.70

Handling Halogen Globes

Due to the high temperature of the halogen globes the glass envelope can crack unless it is very clean. If you leave grease or fingerprints on the globe, clean the glass with methylated spirits (preferably) before using.

David Stevens likes to

think. possible.

"Flexible screens are becoming more versatile. In the near future, I can see the incorporation of a complete smartphone or even computer into a ball-point (or fountain) pen, with the screen pulling out of the pen housing and there being a touchpad keyboard on the screen."

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Silicon Bipolar Transistors - Major Brands

- Major brands only
- Resin moulded or hermetic metal cases.

TO-264

SOT-93

TO-220

TO-218

TO-126

TO-92

TO-3

TO-39

Type	Polarity	Case	Pd@25°c	Vc	Ic	Hfe Min/Max	@ Ic Cont.	Cat.	Qty 1+	Qty 10+	Qty 25+
BC327	PNP	TO-92	625mW	50	800mA	100/630	100mA	ZT2110	$0.60	$0.54	$0.42
BC328	PNP	TO-92	625mW	30	800mA	100/630	100mA	ZT2112	$0.60	$0.54	$0.42
BC337	NPN	TO-92	625mW	50	800mA	100/630	100mA	ZT2115	$0.60	$0.54	$0.42
BC338	NPN	TO-92	625mW	30	800mA	100/630	100mA	ZT2116	$0.60	$0.54	$0.42
BC639	NPN	TO-92	830mW	80	1A	63/250	150mA	ZT2179	$1.20	$1.08	$0.84
BC546	NPN	TO-92	500mW	80	100mA	110/220	2mA	ZT2150	$0.38	$0.34	$0.26
BC547	NPN	TO-92	500mW	50	100mA	110/800	2mA	ZT2152	$0.38	$0.34	$0.26
BC548	NPN	TO-92	500mW	30	100mA	110/800	2mA	ZT2154	$0.38	$0.34	$0.26
BC549	NPN	TO-92	500mW	30	100mA	110/800	2mA	ZT2156	$0.38	$0.34	$0.26
BC550	NPN	TO-92	500mW	50	100mA	110/800	2mA	ZT2160	$0.48	$0.43	$0.33
BC556	PNP	TO-92	500mW	80	100mA	125/475	2mA	ZT2162	$0.48	$0.43	$0.33
BC557	PNP	TO-92	500mW	50	100mA	125/800	2mA	ZT2164	$0.38	$0.34	$0.26
BC558	PNP	TO-92	500mW	30	100mA	110/800	2mA	ZT2166	$0.38	$0.34	$0.26
BC559	PNP	TO-92	500mW	30	100mA	110/800	2mA	ZT2168	$0.38	$0.34	$0.26
BC640	PNP	TO-92	830mW	100	1A	63/250	150mA	ZT2180	$1.20	$1.08	$0.84
BD135	NPN	TO-126	8W	40	1.5A	63/250	150mA	ZT2187	$1.85	$1.65	$1.30
BD136	PNP	TO-126	8W	40	1.5A	63/250	150mA	ZT2188	$1.85	$1.65	$1.30
BD139	NPN	TO-126	8W	80	1.5A	63/250	150mA	ZT2189	$1.40	$1.25	$1.00
BD140	PNP	TO-126	8W	80	1.5A	63/250	150mA	ZT2190	$1.40	$1.25	$1.00
BD649	*NPN	TO-220	60W	100	8A	750	3A	ZT2198	$3.55	$3.20	$2.50
BD650	*PNP	TO-220	60W	100	8A	750	3A	ZT2199	$3.55	$3.20	$2.50
BD681	*NPN	TO-126	40W	100	4A	750	1.5A	ZT2193	$2.80	$2.50	$1.95
BD682	*PNP	TO-126	40W	100	4A	750	1.5A	ZT2192	$2.80	$2.50	$1.95
BF469	NPN	TO-126	1.8W	250	100mA	50	25mA	ZT2200	$3.00	$2.70	$2.40
BF470	PNP	TO-126	1.8W	250	100mA	50	25mA	ZT2202	$3.00	$2.70	$2.40

Type	Polarity	Case	Pd@25°c	Vc	Ic	Hfe Min/Max	@ Ic Cont.	Cat.	Qty 1+	Qty 10+	Qty 25+
MJ10012*	NPN	TO-3	175W	600	10A	300	3A	ZT2222	$17.90	$16.00	$12.50
MJL21193	PNP	TO-3P	200W	250	16A	25/75	8A	ZT2227	$17.90	$16.00	$12.50
MJL21194	NPN	TO-3P	200W	250	16A	25/75	8A	ZT2228	$17.90	$16.00	$12.50
MJ15003	NPN	TO-3	250W	140	20A	25/150	5A	ZT2230	$13.90	$12.90	$9.90
MJ15004	PNP	TO-3	250W	140	20A	25/150	5A	ZT2231	$13.90	$12.90	$9.90
MJ2955	PNP	TO-3	115W	100	15A	5	10A	ZT2235	$4.25	$3.85	$3.00
MJE340	NPN	TO-126	20W	300	500mA	30/240	50mA	ZT2255	$3.65	$3.30	$2.55
MJE350	PNP	TO-126	20W	300	500mA	30/240	50mA	ZT2260	$3.65	$3.30	$2.55
MJE2955	PNP	TO-220	75W	70	10A	20/100	4A	ZT2275	$3.40	$3.05	$2.40
MJE3055	NPN	TO-220	75W	70	10A	20/70	4A	ZT2280	$3.40	$3.05	$2.40
MPSA06	NPN	TO-92	625mW	80	500mA	100	10mA	ZT2286	$0.62	$0.55	$0.43
MPSA13*	NPN	TO-92	625mW	30	500mA	5000	10mA	ZT2287	$0.62	$0.55	$0.43
NJL1302D	PNP	TO-264	200W	260	25A	75/150	15A	ZT2237	$18.90	$16.90	$12.90
NJL3281D	NPN	TO-264	200W	260	25A	75/150	15A	ZT2236	$18.90	$16.90	$12.90
TIP2955	PNP	SOT-93	90W	100	15A	20/70	4A	ZT2270	$4.25	$3.85	$3.00
TIP3055	NPN	SOT-93	90W	100	15A	20/70	4A	ZT2278	$4.25	$3.85	$3.00
TIP31	NPN	TO-220	40W	40	3A	25/50	1A	ZT2285	$2.30	$2.05	$1.60
TIP32	PNP	TO-220	40W	40	3A	25/50	1A	ZT2290	$2.30	$2.05	$1.60
TIP35C	NPN	TO-218	125W	100	25A	15/75	15A	ZT2293	$7.40	$6.65	$5.20
TIP36C	PNP	TO-218	125W	100	25A	15/75	15A	ZT2294	$7.40	$6.65	$5.20
TIP41C	NPN	TO-220	65W	100	6A	15/75	3A	ZT2291	$2.65	$2.40	$1.85
TIP42C	PNP	TO-220	65W	100	6A	15/75	3A	ZT2289	$2.65	$2.40	$1.85
TIP122	*NPN	TO-220	65W	100	5A	1000	3A	ZT2292	$2.65	$2.40	$1.85

Type	Polarity	Case	Pd@25°c	Vc	Ic	Hfe Min/Max	@ Ic Cont.	Cat.	Qty 1+	Qty 10+	Qty 25+
2N2222A	NPN	TO-92	1.8W	75	800mA	100/300	150mA	ZT2298	$0.50	$0.45	$0.35
2N2907	PNP	TO-92	400mW	40	600mA	100/300	150mA	ZT2322	$1.40	$1.25	$1.00
2N3053	NPN	TO-39	1W	60	700mA	50/250	150mA	ZT2299	$1.40	$1.25	$1.00
2N3055	NPN	TO-3	115W	100	15A	20/70	4A	ZT2300	$3.65	$3.30	$2.55
2N3638	PNP	TO-92	300mW	25	500mA	30/130	30mA	ZT2320	$2.05	$1.85	$1.45
2N3773	NPN	TO-3	150W	160	16A	15/60	8A	ZT2324	$12.90	$11.60	$9.00
2N3904	NPN	TO-92	625mW	60	200mA	70	1mA	ZT2326	$0.94	$0.84	$0.65
2N3906	PNP	TO-92	625mW	40	200mA	80	1mA	ZT2328	$0.94	$0.84	$0.65

** Denotes Darlington type. Data representative only. Please download the manufacturers data sheet if values are critical.*

For next day delivery, or Click and Collect, see page 5

Transistors Multi-Replacement

MULTI-REPLACEMENT COMMON TRANSISTORS

Two transistors which will replace a multitude of common hard to get devices. Both are TO-92 package.

PN100

NPN general purpose medium power amp and switch with continuous collector current up to 500mA. PN100 replaces PN2221, PN2222, PN2222A, PN3565, PN3568, PN3569, PN3643, PN5133, 2N2219A, 2N2222A, 2N3414, 2N3415, 2N3416, 2N3417, 2N3700, 2N3704, 2N3904, 2N4123, 2N4124, 2N4401, 2N5088 and 2N5210.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT2283	$0.50	$0.45	$0.35

TYPE	POLARITY	CASE	VCE	IC	HFE MIN/ MAX
PN100	NPN	TO-92	45V	500	80-600
PN200	PNP	TO-92	45V	500	80-600

PN200

PNP general purpose amplifier at collector currents to 500mA. PN200 replaces PN2907, PN2907A, PN3638, PN3638A, PN3640, PN3644, PN4121, PN4143, PN4248, PN4249, PN4250, PN4355, PN4916, PN4917, PN5910, 2N2905A, 2N3467, 2N3702, 2N3906, 2N4125, 2N4126, 2N4291, 2N4402, 2N4403, 2N5086, 2N5087, 2N5447

	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT2284	$0.50	$0.45	$0.35

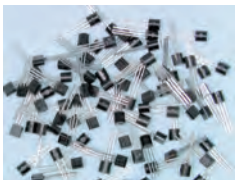
Transistor Packs

PROTOTYPE PACK

TRANSISTOR PACK

100 mixed BC series transistors.
More of the common types.

- 15 x BC547
- 20 x BC548
- 20 x BC549
- 15 x BC557
- 15 x BC558
- 15 x BC559



	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT2170	$20.90	$18.80	$14.60

SMD TRANSISTOR PACKS

BC817
Equivalent to BC547/8
- NPN
- SOT23-3
- 45V

Cat. ZT2118

BC807
Equivalent to BC557/8
- PNP
- SOT23-3
- 45V

Cat. ZT2121

Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
BC817	10	ZT2118	$2.50	$2.00	$1.60
BC807	10	ZT2121	$2.50	$2.00	$1.60

Transistor Clamps

TRANSISTOR CLAMPS

- To clamp TO-220 devices to a heatsink.

HH8600/02

HH8610

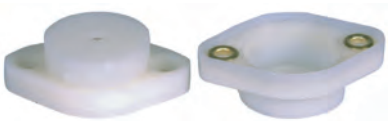
HH8607

Type		Pkt	Cat.	Qty 1+	Qty 10+	Qty 50+
Dual	TO-220	ea	HH8610	$1.80	$1.60	$1.25
Single	TO-220	10	HH8600	$10.90	$9.80	$7.60
Single	TO-220	100	HH8602	$31.90	$28.70	$22.30
Dual	TO-220	100	HH8607	$24.90	$22.30	$17.30

FULL TO-3 INSULATING CAP

Ideal for insulating 'live' transistors or for simply keeping prying fingers away from potentially dangerous transistor cases.

- Fastens to the transistor
- Has a single ventilation hole to decrease chance of overheating.



	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZM9904	$2.10	$1.90	$1.45

Insulation Kits

SILICONE RUBBER TRANSISTOR INSULATORS

Silicone impregnated rubber washers. Stop using messy silicone grease. These washers are made from silicone rubber and are as effective as mica and grease.

HP1150

PHYSICAL PROPERTIES	ALL
Colour	Grey
Tensile Strength	40kg/cm2
Elongation	80%
Dielectric Breakdown Voltage	4000/0.3mm
Co-Efficient Of Thermal Conductance	2.4 x 10-3
Flammability Class	94V-0/0.3mm
Dimensional Stability	0.2% change/0.3mm

Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
TO-3	20	HP1150	$15.90	$14.30	$12.70
TO-220	20	HP1155	$8.60	$7.75	$6.90
TO-220	100	HP1156	$21.90	$19.70	$17.50

Bushes to suit silicone impregnated rubber washers & mica washers TO220 - Pkt 100

	Cat.	Qty 1+	Qty 10+	Qty 50+
	HP1166	$12.90	$11.60	$9.00

SILICONE RUBBER INSULATING KITS

HP1172

HP1174

Type	Washers	Bushes	Cat.	Qty 1+	Qty 10+	Qty 25+
TO-3	4	8	HP1172	$4.30	$3.85	$3.00
TO-3P	4	4	HP1174	$4.60	$4.15	$3.20
TO-220	4	4	HP1176	$4.30	$3.85	$3.00

TO-3 & TO-220 MICA INSULATING KITS

Mica washers and bushes

HP1122

HP1140

Type	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
TO-3	4	HP1122	$4.30	$3.85	$3.00
TO-220	4	HP1142	$2.40	$2.15	$1.70
TO-220	100	HP1140	$18.90	$17.00	$13.20

ADHESIVE TRANSISTOR MOUNTING WASHER KITS

Adhesive silicone washers with good thermal conductivity. Makes installation of transistors a snap! Complete kit supplied including washer and bushes.

type	Cat.	Qty 1+	Qty 4+	Qty 10+
TO-220	HP1160	$11.90	$10.70	$9.50
TO-3	HP1161	$13.90	$12.50	$11.10
TO-3P	HP1162	$11.90	$10.70	$9.50

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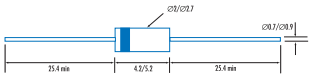
General Diodes

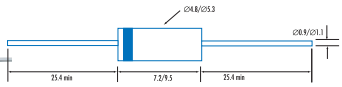
STANDARD DIODES

a = anode
k = cathode

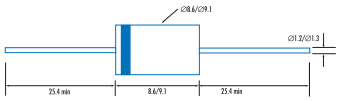
DO-41



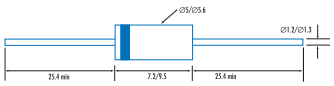
DO-201



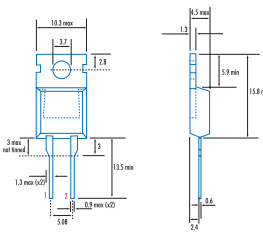
R-6



DO-27



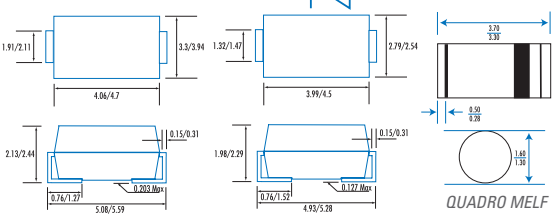
SOD-59



TO-220

SMD DIODES

a = anode
k = cathode



QUADRO MELF

THROUGH HOLE DIODES - SSR = STANDARD SILICON RECTIFIER

Type	Description			Case	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
1N4004	SSR	400V	1A	DO-41	4	ZR1004	$0.90	$0.67	$0.49
1N4004		400V	1A	DO-41	100	ZR1005	$9.90	$7.45	$5.45
1N4007	SSR	1000V	1A	DO-41	4	ZR1007	$1.00	$0.75	$0.55
1N4007		1000V	1A	DO-41	100	ZR1008	$15.90	$11.90	$8.70
1N4934	SSR	100V	1A	DO-41	10	ZR1001	$4.90	$3.70	$2.70
1N5404	SSR	400V	3A	DO-27	ea	ZR1014	$0.44	$0.33	$0.24
1N5404		400V	3A	DO-27	100	ZR1015	$14.90	$11.20	$8.20
1N5408	SSR	1000V	3A	DO-27	ea	ZR1018	$0.50	$0.37	$0.27
1N5408		1000V	3A	DO-27	100	ZR1017	$18.90	$14.20	$10.40
1N5711	Schottky	70V	15mA	DO-35	ea	ZR1027	$1.00	$0.75	$0.55
1N5819	Schottky	40V	1A	DO-41	ea	ZR1020	$1.00	$0.75	$0.55
1N5822	Schottky	40V	3A	DO-201	ea	ZR1048	$1.50	$0.90	$0.70
1N5822	Schottky	40V	3A	DO-27	10	ZR1023	$8.60	$6.45	$4.75
1N914/1N4148	Signal	100V	150mA	DO-27	5	ZR1100	$0.75	$0.56	$0.41
1N914/1N4148		100V	150mA	DO-27	100	ZR1105	$7.40	$5.55	$4.05
6A1/P600B	SSR	100V	6A	R-6	10	ZR1041	$16.90	$12.70	$9.30
6A4/P600G	SSR	400V	6A	R-6	10	ZR1044	$16.90	$12.70	$9.30
6A10/P600M	SSR	1000V	6A	R-6	ea	ZR1024	$2.80	$2.10	$1.55
BAT46/48	Schottky	100V	150mA	DO-27	ea	ZR1141	$1.85	$1.40	$1.00
BY229	Fast	600V	8A	SOD-59	ea	ZR1028	$8.60	$6.45	$4.75
FR302	Fast	100V	3A	DO-201	10	ZR1050	$4.25	$3.20	$2.35
FR307	Fast	1000V	3A	DO-201	10	ZR1052	$4.25	$3.20	$2.35
FR607	Fast	1000V	6A	R-6	10	ZR1054	$20.90	$15.70	$11.50
MBR20100CT	Dbl Schottky	100V	20A	TO-220	ea	ZR1039	$3.10	$2.80	$2.15
MBR735	Schottky	35V	7A	TO-220	ea	ZR1029	$2.15	$1.60	$1.20
SF37	Super Fast	600V	3A	DO-27	10	ZR1090	$9.90	$7.45	$5.45
UF4003	Ultrafast	200V	1A	DO-41	ea	ZR1034	$1.50	$0.85	$0.60
UF4004	Ultrafast	400V	1A	DO-41	ea	ZR1036	$1.85	$1.40	$1.00
UF4007	Ultrafast	1000V	1A	DO-41	ea	ZR1038	$2.50	$1.50	$1.10

SURFACE MOUNT DIODES

- Sold as a pack of 10

Type	Description	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
1N917/1N4148	100V 150mA	Quadro Melf	ZR1103	$8.60	$6.45	$4.75
SM4004A	400V	1A D0-214AC	ZR1003	$7.40	$5.55	$4.05
SM4934A	100V	1A D0-214AC	ZR1070	$8.60	$6.45	$4.75
SM5819A Schottky	40V	1A D0-214AC	ZR1021	$8.60	$6.45	$4.75
SM5822B Schottky	40V	3A D0-214AA	ZR1025	$8.60	$6.45	$4.75

Zener Diodes

1 WATT ZENER DIODES*

next page
tech talk for how zener diodes work.

ABSOLUTE MAXIMUM RATINGS	
Power Dissipation	1W
Derate Above 50°C	6.67mW/°C
Storage Temperature Range	-65°C to +200°C
Operating Junction Temperature	+200°C
Thermal Resistance Junction To Lead	53.5°C/W
Thermal Resistance Junction To Ambient	100°C/W
Lead Temperature (1/16" From Case For 10 Sec)	230°C
Surge Power*	10W
Case Size	DO-41

a = anode
k = cathode

**Non-recurrent square wave PW=8.3ms, TA=55°C*
Note 1: Ratings are based on max junction temperature of 200°C
Note 2: These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Type	Voltage	Cat.	Qty 1+	Qty 10+	Qty 50+
1N4728	3V3	ZR1398	$0.80	$0.72	$0.56
1N4729	3V6	ZR1399	$0.80	$0.72	$0.56
1N4730	3V9	ZR1400	$0.80	$0.72	$0.56
1N4731	4V3	ZR1401	$0.80	$0.72	$0.56
1N4732	4V7	ZR1402	$0.80	$0.72	$0.56

Type	Voltage	Cat.	Qty 1+	Qty 10+	Qty 50+
1N4733	5V1	ZR1403	$0.80	$0.72	$0.56
1N4734	5V6	ZR1404	$0.80	$0.72	$0.56
1N4735	6V2	ZR1405	$0.80	$0.72	$0.56
1N4736	6V8	ZR1406	$0.80	$0.72	$0.56
1N4737	7V5	ZR1407	$0.80	$0.72	$0.56
1N4738	8V2	ZR1408	$0.80	$0.72	$0.56
1N4739	9V1	ZR1409	$0.80	$0.72	$0.56
1N4740	10V	ZR1410	$0.80	$0.72	$0.56
1N4741	11V	ZR1411	$0.80	$0.72	$0.56
1N4742	12V	ZR1412	$0.80	$0.72	$0.56
1N4743	13V	ZR1413	$0.80	$0.72	$0.56
1N4744	15V	ZR1415	$0.80	$0.72	$0.56
1N4745	16V	ZR1416	$0.80	$0.72	$0.56
1N4746	18V	ZR1418	$0.80	$0.72	$0.56
1N4747	20V	ZR1420	$0.80	$0.72	$0.56
1N4748	22V	ZR1422	$0.80	$0.72	$0.56
1N4749	24V	ZR1424	$0.80	$0.72	$0.56
1N4750	27V	ZR1427	$0.80	$0.72	$0.56
1N4751	30V	ZR1430	$0.80	$0.72	$0.56
1N4752	33V	ZR1433	$0.80	$0.72	$0.56
1N4753	36V	ZR1436	$0.80	$0.72	$0.56
1N4754	39V	ZR1439	$0.80	$0.72	$0.56
1N4761	75V	ZR1475	$1.20	$1.08	$0.84

5 WATT ZENER DIODES

1N53XXB Series Silicon Zener Diodes are a high quality voltage regulator for use in industrial, commercial, and other applications.

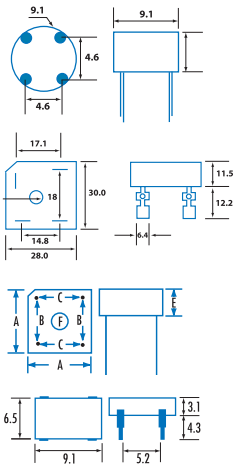
ABSOLUTE MAXIMUM RATINGS	
Power Dissipation (@TL=75°C)	5 Watts
Operating and Storage Temperature	-65°C to +200°C
Tolerence "B Suffix"	+5%

a = anode
k = cathode

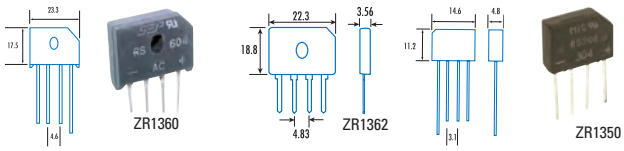
Type	Voltage	Cat.	Qty 1+	Qty 10+	Qty 50+
1N5352B	15V	ZR1450	$2.15	$1.95	$1.50
1N5349B	12V	ZR1440	$2.15	$1.95	$1.50
1N5374B	75V	ZR1480	$2.15	$1.95	$1.50

For next day delivery, or Click and Collect, see page 5

Bridge Rectifiers



ZR1314 ZR1320
A=15.3mm
A=19.6mm
B=8.8mm
B=13.2mm
C=9.1mm
C=13.2mm
E=6.4mm
E=7.5mm
F=ø4mm F=ø6mm



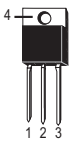
BRIDGE RECTIFIERS

TYPE	VOLTAGE	CURRENT	Cat.	Qty 1+	Qty 10+	Qty 25+
DB104	400V	1A	ZR1308	$1.55	$1.15	$0.85
W04	400V	1.2A	ZR1304	$1.05	$0.78	$0.57
BR64	400V	6A	ZR1314	$3.10	$2.35	$1.70
BR106	600V	10A	ZR1320	$3.55	$2.65	$1.95
MB354	400V	35A	ZR1324	$6.80	$5.10	$3.75

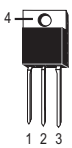
INLINE BRIDGE RECTIFIERS

TYPE	VOLTAGE	CURRENT	Cat.	Qty 1+	Qty 10+	Qty 25+
RS206	800V	2A	ZR1350	$2.80	$2.10	$1.55
KBU604	400V	6A	ZR1360	$4.10	$3.10	$2.25
GBU806	800V	8A	ZR1362	$4.90	$3.70	$2.70

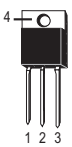
Voltage Regulators



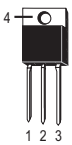
TO-220 package 78xx 1A fixed voltage regulator (+)
1 - input
2 - common (ground)
3 - output
4 - common



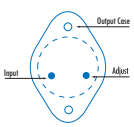
TO-220 package 317T 1.5A adjustable voltage regulator (+)
1 - adjust
2 - output
3 - input
4 - output



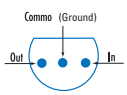
TO-220 package 79xx fixed voltage regulator (-)
1 - common (ground)
2 - input
3 - output
4 - input



TO-220 package 337T voltage regulator (-)
1 - adjust
2 - input
3 - output
4 - input



Connections for the TO-3 LM317K & LM350K (viewed from bottom)



Connections for TO-92 78LXX (viewed from bottom)

STANDARD VOLTAGE REGULATORS

TYPE	VOUT	IOUT	CASE	Cat.	Qty 1+	Qty 10+	Qty 25+
7805/LM340T5	+5V	1A	TO-220	ZV1505	$2.30	$2.05	$1.60
7806/LM340T6	+6V	1A	TO-220	ZV1506	$2.30	$2.05	$1.60
7808/LM340T8	+8V	1A	TO-220	ZV1508	$2.30	$2.05	$1.60
7809/LM340T9	+9V	1A	TO-220	ZV1509	$2.30	$2.05	$1.60
7812/LM340T12	+12V	1A	TO-220	ZV1512	$2.30	$2.05	$1.60
7815/LM340T15	+15V	1A	TO-220	ZV1515	$2.30	$2.05	$1.60
7824/LM340T24	+24V	1A	TO-220	ZV1524	$2.30	$2.05	$1.60
78L05	+5V	100mA	TO-92	ZV1539	$1.85	$1.65	$1.30
78L12	+12V	100mA	TO-92	ZV1542	$1.85	$1.65	$1.30
7905/LM320T5	-5V	1A	TO-220	ZV1525	$2.30	$2.05	$1.60
7909/LM320T9	-9V	1A	TO-220	ZV1530	$2.30	$2.05	$1.60
7912/LM320T12	-12V	1A	TO-220	ZV1532	$2.30	$2.05	$1.60
7915/LM320T15	-15V	1A	TO-220	ZV1535	$2.30	$2.05	$1.60
LM317T	+1.2 to +37V	1.5A	TO-220	ZV1615	$3.65	$3.30	$2.55
LM337T	-1.2 to -37V	1.5A	TO-220	ZV1620	$5.30	$4.75	$3.70
LM350K	+1.2 to +33V	3A	TO-3	ZV1635	$24.90	$22.40	$17.40
LM723CN	+2.0 to +37V	150mA	DIP14	ZV1676	$2.80	$2.50	$1.95
MC78T12	+12V	3A	TO-220	ZV1634	$5.90	$5.30	$4.15

SWITCHING VOLTAGE REGULATORS

TYPE		VOUT	IOUT	CASE	Cat.	Qty 1+	Qty 10+	Qty 25+
LM2576T-ADJ	Stepdown	+1.23 to +37V	3A	TO-220	ZV1640	$6.90	$6.20	$4.80
LM2577T-12	Stepup	+12V	3A	TO-220	ZV1642	$13.90	$12.90	$9.90
LM2577-ADJ	Stepup	+3.5 to +50V	3A	TO-220	ZV1656	$5.60	$5.00	$3.90
LM2678T-5.0	Stepdown	+5V	5A	TO-220	ZV1636	$13.90	$12.90	$9.90
LM2678T-12	Stepdown	+12V	5A	TO-220	ZV1637	$13.90	$12.90	$9.90
TL499SCP	Controller	+2.9 to +30V	100mA	DIP8	ZV1644	$4.50	$4.05	$3.15

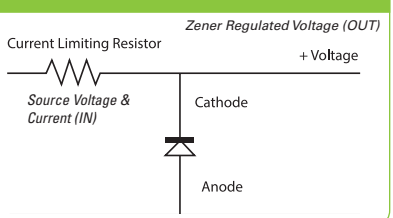
LOW DROPOUT REGULATORS

TYPE	DESCRIPTION	CASE	VIN (TYP)	VOUT	IOUT (MAX)	VDROP (VOUT-VIN)	Cat.	Qty 1+	Qty 10+	Qty 25+
LM3940	Fixed voltage	TO-220	4.5 to 5.5V	+3.3V	1.0A	500mV at 1A	ZV1565	$5.20	$4.60	$3.60
LM2936-3.3	Ultra low quiescent current	TO-92	4.0 to 26V	+3.3V	50mA	200mV at 50mA	ZV1650	$5.60	$5.00	$3.90
LP2951ACN	Micropower adjustable voltage	DIP8	2.0 to 30V	+1.24 to +29V	100mA	380mV at 100mA	ZV1646	$3.10	$2.80	$2.15
LM2940CT-5.0	Fixed voltage	TO-220	6.25 to 26V	+5V	1.0A	500mV at 1A	ZV1560	$10.90	$9.80	$7.60
LM2940CT-12	Fixed voltage	TO-220	13.6 to 26V	+12V	1.0A	500mV at 1A	ZV1562	$10.90	$9.80	$7.60
LM2936-5.0	Ultra low quiescent current	TO-92	5.5 to 26V	+5V	50mA	200mV at 50mA	ZV1652	$5.60	$5.00	$3.90
LM1085IT-12	Fixed voltage, high current	TO-220	13.5 to 25V	+12V	3.0A	1.3V at 3A	ZV1564	$10.90	$9.80	$7.60
LP2950ACZ-5.0	Micropower fixed voltage	TO-92	6.0 to 30V	+5V	100mA	380mV at 100mA	ZV1645	$3.20	$2.85	$2.20
MCP1703-5002E/CB	Ultra low quiescent current	SOT-23	5.33 to 16V	+5V	250mA	330mV at 250mA	ZV1545	$29.90	$26.90	$20.90

tech talk — What Is A Zener Diode And How Does It Work?

A Zener diode works like a normal diode in the FORWARD direction, but when voltage is applied in the REVERSE direction it does something really useful. At a specified reverse voltage it starts to conduct. In other words, if you apply, say 12V (for a 12V Zener) across the diode it will start to conduct current. See diagram: When the Zener starts to draw current, this has the effect of regulating the positive (+) voltage. Note: As the Zener draws current, this will turn into heat. The Zener therefore has a wattage rating (as well as its Zener voltage rating) this may not be exceeded. Jaycar carries a range of Zener diodes from 3.3V to 75V.

Fig 1. As positive (+) voltage climbs up to 12 volts the 12V Zener starts to conduct, drawing current



Thermistors

NEGATIVE TEMPERATURE COEFFICIENT THERMISTORS

These devices are made of a special ceramic material which changes resistance value rapidly with temperature increase. They are commonly used to check thermal runaway in bipolar transistor amplifiers etc., but really have dozens of other uses. They are rugged and very reliable.

- Resistance at 25°C ±10%
- Dissipation (MAX) 500mW
- Temperature Range -20°C ~ +125°
- Case 5mm diameter
- Thermal dissipation constant: 6mW/°C
- Radial type, dipped epoxy
- Type-NTC Ceramic material with tinned copper lead

Resist. (Ω)	Max current (mA)		Cat.	Qty 1+	Qty 25+	Qty 100+
15	250	Ceramic	RN3430	$2.15	$1.50	$1.30
100	200	Ceramic	RN3432	$2.15	$1.50	$1.30
500	100	Ceramic	RN3434	$2.15	$1.50	$1.30
1k	80	Ceramic	RN3436	$2.15	$1.50	$1.30
4.7k	45	Ceramic	RN3438	$2.15	$1.50	$1.30
10k	30	Ceramic	RN3440	$2.15	$1.50	$1.30
47k	20	Ceramic	RN3442	$2.15	$1.50	$1.30
100k	15	Ceramic	RN3444	$2.15	$1.50	$1.30

HIGH TEMPERATURE GLASS THERMISTOR 100K

This high temperature NTC thermistor is suitable for operation up to 250 degrees, and is compatible with the hot-end thermistors used in many 3D printers (including TL4100 and TL4076).

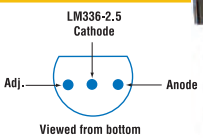
- Sealed glass body with small bead for fast response
- 30mm leads

	Cat.	Qty 1+	Qty 25+	Qty 100+
100kΩ @ 25°C	RN3446	$5.60	$3.90	$3.30

Voltage Reference Diodes

VOLTAGE REFERENCE DIODE

Provides a stable 2.5V reference point for circuitry and can be used to make portable meters, regulators or general purpose analog circuitry.



type	vref	if (min)	case	Cat.	Qty 1+	Qty 10+	Qty 25+
LM336-2.6	2.5V	10mA	TO-92	ZV1624	$4.90	$4.40	$3.45

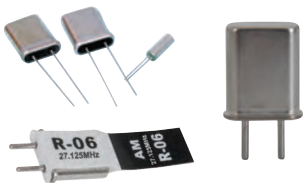
Crystals

CRYSTALS

Freq Tolerance: ±30Hz per 1MHz.
Operating Temp: -20 to +70°C.
Load Capac: 30pF typ.

RC CRYSTAL TX/RX

- Used in remote control circuits
- *Supplied as a pair*



	Cat.	Qty 1+	Qty 10+	Qty 25+
27.095MHz	RQ5275	$12.90	$11.60	$10.30
27.125MHz	RQ5276	$12.90	$11.60	$10.30
27.145MHz	RQ5277	$12.90	$11.60	$10.30
27.175MHz	RQ5278	$12.90	$11.60	$10.30
27.195MHz	RQ5279	$12.90	$11.60	$10.30

- *Below sold individually*

FREQ. (MHZ)	W X D X H (MM)	CASE	MAX ESR	Cat.	Qty 1+	Qty 10+	Qty 25+
2.00	11.05 x 4.65 x 13.46	HC49U	500Ω	RQ5268	$5.60	$5.05	$4.50
3.2768	11.05 x 4.65 x 13.45	HC49U	90Ω	RQ5271	$5.60	$5.05	$4.50
3.5795	11.05 x 4.65 x 13.46	HC49U	90Ω	RQ5272	$5.60	$5.05	$4.50
4.000	11.05 x 4.65 x 13.46	HC49U	70Ω	RQ5274	$5.60	$5.05	$4.50
4.433619	11.05 x 4.65 x 13.46	HC49U	70Ω	RQ5284	$5.60	$5.05	$4.50
6.00	11.05 x 4.65 x 13.46	HC49U	60Ω	RQ5285	$5.60	$5.05	$4.50
8.00	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ5287	$5.60	$5.05	$4.50
10.00 (P)	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ5289	$5.60	$5.05	$4.50
12.00	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ5293	$5.60	$5.05	$4.50
16.00	11.05 x 4.65 x 13.46	HC49U	25Ω	RQ5296	$5.60	$5.05	$4.50
20.00	11.05 x 4.65 x 13.46	HC49U	25Ω	RQ5299	$5.60	$5.05	$4.50
32.768kHz	3.1 x 3.1 x 8	DT38	35kΩ	RQ5297	$5.60	$5.05	$4.50
38kHz Mini	3 x 8.5		40Ω	RQ5298	$5.60	$5.05	$4.50

SCRs / Triacs / Diacs

SCRS

TO-126

SILICON CONTROLLED RECTIFIERS - Reverse blocking thyristors glassivated PNPN devices designed for high volume consumer applications such as temperature, light and speed control, process and remote control and warning systems where reliabilty of operation is important.

- Glassivated surface for reliabilty and uniformity
- Power rated at economical prices
- Sensitive gate triggering
- Practical level triggering and holding characteristics
- Flat, rugged, thermopad construction for low thermal resistance, high heat dissipation and durabilty

TYPE	VMAX	IE(A)	VF(V)	IG(µA)	VG(V)	HOLD IN (MA)	CAT.
BT169D	400	0.8	1.2	50	0.5	2	ZX7010
C106D1	400	4	2.2	200	0.8	3	ZX7006
C122E/ MCR8M / BT151	500	8	1.8	25mA	1	30	ZX7012

	voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
BT169D	400V	ZX7010	$3.65	$3.30	$2.55
CI06D1	400V	ZX7006	$3.65	$3.30	$2.55
C122E / MCR8M / BT151	500V	ZX7012	$6.80	$6.10	$4.75

TRIACS

TO-220

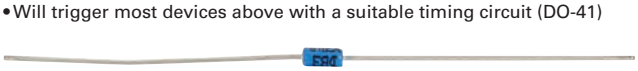
TYPE	VMAX	IE(A)	VF(V)	IG(µA)	VG(V)	HOLD IN (MA)	CAT.
SC141D	400	6	2	50	2.5	50	ZX7141
SC151D	400	15	1.6	50	2	50	ZX7145
TAG225	400	5	2	25	2.5	25	ZX7147
BT137X	600	8	1.65	25	1.5	<20	ZX7149*

*Note: ZX7149 is isotab - mounting tab is dielectrically isolated.

	voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
SC141D	400V	ZX7141	$5.90	$5.30	$4.15
SC151D	400V	ZX7145	$8.00	$7.20	$5.60
TAG225	400V	ZX7147	$4.90	$4.40	$3.45
BT137X	600V	ZX7149	$4.60	$4.15	$3.20

DIAC

- Will trigger most devices above with a suitable timing circuit (DO-41)



Type	voc	ifmax	isw	vsw	Cat.	Qty 1+	Qty 10+	Qty 25+
ST2	3.5V	5mA	27	35V	ZX7192	$2.30	$2.05	$1.60

product data

We have so much data and fact sheets we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

tech talk — What Does "Embedded System" Mean?

An embedded system is a dedicated circuit, generally centred around a microprocessor (or microcontroller) which has a software program stored in dedicated on-board memory or in the memory of the microprocessor itself that has a SPECIFIC computational purpose. A calculator, is, for example an embedded system. It is specifically made to perform a particular task. A mobile phone is another example of an embedded system. A controller for a washing machine or a microwave oven is an example of an embedded system also. In other words, the application is specifically embedded in the system architecture. Typically a personal computer has a "general purpose" application. Both personal computers and embedded systems are programmed by high level languages, but nowadays the programming language in a PC is less obvious as the PC generally powers up to an application's menu automatically. The embedded system, on the other hand requires you to program the device directly through a programming language like 'C' etc. Interestingly, Smartphone which can still be regarded as an embedded system are looking more and more like PCs every day. Maybe the definitions will need to be redefined in future.

For next day delivery, or Click and Collect, see page 5

MOSFETs, FETs, UJTs

MOSFETS, FETS, UJTS

- Major brands

UJTS

Type	Voltage	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2N2646	30V	UJT PN 300mW	TO-5	ZT2297	$10.90	$9.90	$7.90
2N6027	0V	UJT Programmable 30mW	TO-92	ZT2397	$2.40	$2.15	$1.70

FETS/JFETS

Type	Voltage	Current	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2N5484	25V	10mA	JFET N-Ch VHF/UHF Amp	TO-92	ZT2375	$3.30	$2.95	$2.30
2N7000	60V	200mA	FET D-MOS N-Ch Relay Driver	TO-92	ZT2400	$0.94	$0.84	$0.65
MPF102	25V	10mA	JFET N-Ch VHF Amp	TO-92	ZT2262	$3.30	$2.90	$2.70
MPF106/2N5485	25V	10mA	JFET N-Ch VHF/UHF Amp	TO-92	ZT2266	$3.00	$2.70	$2.10
VN10KM	60V	300mA	FET N-Ch	TO-92	ZT2452	$5.90	$5.30	$4.15

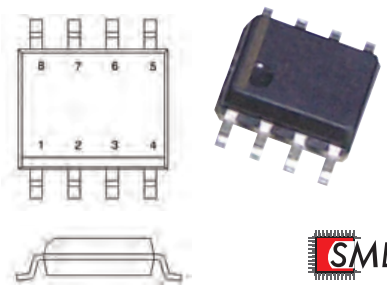
MOSFETS

Type	Voltage	Current	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
BUZ71	50V	14A	MOSFET N-Ch Power	TO-220	ZT2225	$5.90	$5.30	$4.15
IRF9540N	100V	23A	MOSFET P-Ch Power	TO-220	ZT2467	$7.40	$6.65	$5.20
IRF1405N	55V	169A	MOSFET N-Ch Automotive	TO-220	ZT2468	$7.40	$6.65	$5.20
IRF540N	100V	33A	MOSFET N-Ch Power	TO-220	ZT2466	$7.40	$6.65	$5.20
ST16NE06/ STP60NF06	60V	16A	MOSFET N-Ch Power	TO-220	ZT2277	$3.65	$3.30	$2.55
BUK-456-60	60V	60A	FET N-Ch Power	TO-220	ZT2450	$12.90	$11.60	$9.00
SUP53P06-20	60V	53A	MOSFET P-Ch	TO-220	ZT2464	$7.40	$6.65	$5.20

See our range of Heatsink on page 120

DUAL N-CHANNEL 30V MOSFET - SI4944DY

This handy dual N-channel MOSFET can be used in many projects such as DC-DC conversion and switching circuits. They have extremely low on-resistance (rDS(on) 0.016Ω VGS = 4.5V) and fast switching/low capacitance. They are very useful as analog switches as well as the traditional uses for MOSFETs eg, relay driving, LED driving, etc.



SMD

type	case	Cat.	Qty 1+	Qty 10+	Qty 25+
Si4944DY	SOIC8	ZK8821	$6.80	$6.10	$4.75

Transducers

ULTRASONIC TRANSDUCER

- Compact and lightweight
- High sound pressure level
- Low power consumption
- High sensitivity, reliabilty & stability
- Transmitter & receiver in one unit

Application:
- Parking sensors
- Proximity sensor
- Motion detector
- Automatic doors
- Intruder alarm
- Water level meter

SPECIFICATIONS	AU5550		
Frequency	40kHz	Input Voltage	140V
Transmitting Sound Pressure	>105dB	Operating Temperature	-40°C to +85°C
Receiving Sensitivity	>-74dB		

	Cat.	Qty 1+	Qty 5+	Qty 10+
	AU5550	$8.60	$7.75	$6.90

Valve Sockets

VALVE SOCKETS

9 PIN:

This unit is moulded from high grade thermosetting resin. The pins are adequately plated and have deep solder terminals, sufficient for several hard wiring points per pin. Sturdy flange mount is meant for fitting above the chassis.

8 PIN:

Made from similar materials to above, but with moulded key. Can be mounted above or below the chassis.

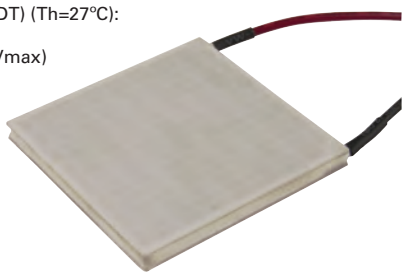
	Cat.	Qty 1+	Qty 10+	Qty 50+
9 Pin	PS2082	$9.90	$8.90	$7.90
8 Pin	PS2080	$9.90	$8.90	$7.90

Peltier Modules

THERMOELECTRIC (PELTIER) MODULES

These are a solid-state devices which operate as a heat pump to transfer heat utilising the Peltier effect. Suitable for cooling or heating applications up to 100°C.

- Measures: 40 x 40 mm with lead wires
- Temperature differential (DT) (Th=27°C): >=68°C
- Optimum input voltage (Vmax) (Th=27°C): 15V



SPECIFICATIONS	ZP9100	ZP9102	ZP9104
Optimum Input Current (Imax) (Th=27°C)	4A	6A	8A
Maximum Cooling Power (Qmax)	33.4W	51.4W	68.09W

Cooling Power	Cat.	Qty 1+	Qty 10+	Qty 25+
33.4W	ZP9100	$24.90	$22.90	$19.90
51.4W	ZP9102	$28.90	$25.90	$22.90
68.09W	ZP9104	$31.90	$27.90	$24.90

tech talk Capacitor Types

These offer low cost and high capacitance in a small physical size. Normally there are two types, the 'High Stability Temperature Compensating' type and the 'Bypass and Coupling' type. The former for use in resonant circuit and filter applications, with a value largely independent of voltage and frequency. The latter is for use in less critical applications, as they are less stable and have non-linear temperature characteristics and are somewhat voltage dependent.

Polyester:
These type offer good stability, a large range of values at low cost, and are the most widely used capacitor for general purpose.

Polycarbonate:
These have a low temperature coefficient, low dielectric loss at high frequency and excellent temperature stability characteristics.

Polystyrene:
These offer tight tolerance and are highly stable; making them suitable for very stable tuned circuits and oscillators.

Polypropylene:
This type has a very low dielectric loss and are particularly suitable in audio circuits and sample-and-hold circuits.

Mylar:
This is the Du Pont tradename for polyester. They usually have an aluminium film deposit on the dielectric and are called "metallised polyester".

CAPACITOR QUICK REFERENCE CHART

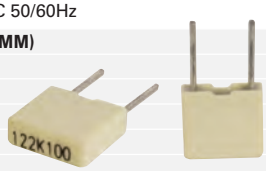
USE	CAPACITOR TYPE	CAT.NO	PAGE
RF	Ceramic	RC-5XXX	102
AUDIO	MKT	RM-7XXX	101
SMPS	Low ESR	RE-63XX	104
PSU	Electrolytic	RE-60XX	103
CROSSOVER	Poly/Electrolytic	RY-69XX	103
MOTOR	Motor Start	RU-66XX	103

Capacitors

100VDC MKT MINIATURE POLYESTER

• Rated voltage: 100VDC working, 40VAC 50/60Hz

CAPACITANCE	WIDTH	DEPTH	HEIGHT (MM)
0.001 - 0.08µF	7.5	2.5	6.5
0.10 - 0.22µF	7.5	3.2	8
0.27 - 0.56µF	7.5	5	8
0.68µF	7.5	6	9.6
1.5µF	26	7	16



Value (µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.0010	1.0	5	RM7010	$0.42	$0.29	$0.25
0.0012	1.2	5	RM7012	$0.42	$0.29	$0.25
0.0015	1.5	5	RM7015	$0.42	$0.29	$0.25
0.0022	2.2	5	RM7022	$0.42	$0.29	$0.25
0.0027	2.7	5	RM7027	$0.42	$0.29	$0.25
0.0033	3.3	5	RM7033	$0.42	$0.29	$0.25
0.0039	3.9	5	RM7039	$0.42	$0.29	$0.25
0.0047	4.7	5	RM7047	$0.42	$0.29	$0.25
0.0068	6.8	5	RM7055	$0.42	$0.29	$0.25
0.010	10	5	RM7065	$0.42	$0.29	$0.25
0.012	12	5	RM7070	$0.42	$0.29	$0.25
0.015	15	5	RM7075	$0.42	$0.29	$0.25
0.018	18	5	RM7080	$0.42	$0.29	$0.25
0.022	22	5	RM7085	$0.42	$0.29	$0.25
0.033	33	5	RM7095	$0.42	$0.29	$0.25
0.039	39	5	RM7100	$0.42	$0.29	$0.25
0.047	47	5	RM7105	$0.42	$0.29	$0.25
0.056	56	5	RM7110	$0.42	$0.29	$0.25
0.068	68	5	RM7115	$0.42	$0.29	$0.25
0.082	82	5	RM7120	$0.48	$0.32	$0.27
0.10	100	5	RM7125	$0.50	$0.32	$0.27
0.12	120	5	RM7130	$0.48	$0.32	$0.27
0.15	150	5	RM7135	$0.54	$0.37	$0.30
0.18	180	5	RM7140	$0.54	$0.37	$0.30
0.22	220	5	RM7145	$0.54	$0.37	$0.30
0.27	270	5	RM7150	$0.78	$0.52	$0.45
0.33	330	5	RM7153	$0.78	$0.52	$0.45
0.47	470	5	RM7165	$0.78	$0.52	$0.45
0.56	560	5	RM7166	$1.50	$0.70	$0.60
0.68	680	5	RM7168	$1.50	$0.70	$0.60
1.00	1000	5	RM7170	$1.20	$0.80	$0.70
1.50	1500	23	RM7172	$1.60	$1.10	$0.95

250VDC METALLISED POLYPROPYLENE

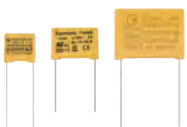
• Ideal for speaker crossovers
• Axial

HIGH QUALITY

Metallised polypropylene dielectric offers stable capacitance over a wide temperature range. This, and the relatively high capacitance for size makes them ideal for high quality loudspeaker crossover networks. Naturally, they are also suitable for other applications where a stable, non polarised capacitive component is required.

Value (µF)	W x D x H (mm)	Cat.	Qty 1+	Qty 5+	Qty 10+
1.0	25 x 16 x 8	RY6950	$4.90	$4.40	$3.90
1.5	29 x 17 x 10	RY6951	$5.90	$5.30	$4.80
2.2	32 x 19 x 10	RY6952	$6.90	$6.20	$5.50
3.3	32 x 22 x 13	RY6953	$9.90	$8.90	$7.90
4.7	32 x 22 x 15	RY6954	$15.90	$14.30	$12.70
5.6	46 x 20 x 12	RY6955	$16.90	$15.20	$13.50
6.8	46 x 22 x 14	RY6956	$17.90	$16.00	$14.30
8.2	46 x 23 x 16	RY6957	$21.90	$19.70	$17.50
10.0	56 x 29 x 21	RY6958	$23.90	$21.50	$19.00

250VAC - METALLISED POLYPROPYLENE - X2 STYLE

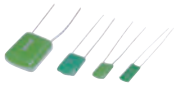


• Voltage rating: 275/250VAC
• Capacitance tolerance: ±10% std ±5%
• Operating temperature: -40°C to 85°C

Value (µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.010	10	10	RG5230	$1.20	$0.84	$0.72
0.022	22	10	RG5232	$1.20	$0.84	$0.72
0.047	47	15	RG5234	$1.20	$0.84	$0.72
0.10	100	15	RG5236	$1.55	$1.10	$0.95
0.22	220	22.5	RG5238	$1.65	$1.15	$1.00
0.47	470	22.5	RG5240	$4.60	$3.20	$2.75
1.0	1000	27.5	RG5248	$5.70	$3.90	$3.30

GREENCAPS POLYESTER OR MYLAR

• Supplied loose
• Operating temperature: -40°C to +85°C



100VDC

Value (µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.0010	1.0	4	RG5010	$0.38	$0.26	$0.22
0.0012	1.2	4	RG5012	$0.38	$0.26	$0.22
0.0015	1.5	4	RG5015	$0.38	$0.26	$0.22
0.0018	1.8	4	RG5018	$0.38	$0.26	$0.22
0.0022	2.2	4	RG5022	$0.38	$0.26	$0.22
0.0027	2.7	4	RG5027	$0.38	$0.26	$0.22
0.0033	3.3	4	RG5033	$0.38	$0.26	$0.22
0.0039	3.9	4	RG5039	$0.38	$0.26	$0.22
0.0047	4.7	4	RG5047	$0.38	$0.26	$0.22
0.0056	5.6	4	RG5050	$0.38	$0.26	$0.22
0.0068	6.8	4	RG5055	$0.38	$0.26	$0.22
0.0082	8.2	4	RG5060	$0.38	$0.26	$0.22
0.010	10	4	RG5065	$0.38	$0.26	$0.22
0.012	12	4	RG5070	$0.38	$0.26	$0.22
0.015	15	5	RG5075	$0.38	$0.26	$0.22
0.018	18	5	RG5080	$0.38	$0.26	$0.22
0.022	22	5	RG5085	$0.38	$0.26	$0.22
0.027	27	5	RG5090	$0.38	$0.26	$0.22
0.033	33	5	RG5095	$0.38	$0.26	$0.22
0.039	39	5	RG5100	$0.38	$0.26	$0.22
0.047	47	5	RG5105	$0.38	$0.26	$0.22
0.056	56	6	RG5110	$0.38	$0.26	$0.22
0.068	68	6.5	RG5115	$0.38	$0.26	$0.22
0.082	82	6.5	RG5120	$0.38	$0.26	$0.22
0.10	100	7	RG5125	$0.38	$0.26	$0.22
0.12	120	7	RG5130	$0.38	$0.26	$0.22
0.15	150	7.5	RG5135	$0.38	$0.26	$0.22
0.18	180	7.5	RG5140	$0.38	$0.26	$0.22
0.22	220	7.5	RG5145	$0.38	$0.26	$0.22
0.27	270	7.5	RG5150	$0.52	$0.36	$0.31
0.33	330	8	RG5153	$0.52	$0.36	$0.31

100VDC LARGE VALUES SUITABLE FOR SPEAKER CROSSOVERS, ETC.

Value (µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.47	470	11	RG5165	$0.50	$0.35	$0.30
0.56	560	15	RG5166	$0.75	$0.52	$0.45
0.68	680	11	RG5168	$2.15	$1.50	$1.30
0.82	820	15	RG5169	$2.15	$1.50	$1.30
1.00	1000	11	RG5170	$2.80	$1.95	$1.70
1.50	1500	20	RG5172	$4.25	$3.00	$2.55
2.20	2200	11	RG5175	$4.25	$3.00	$2.55
3.30	3300	21	RG5180	$4.25	$3.00	$2.55

630VDC

Value (µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.010	10	9	RG5201	$0.75	$0.52	$0.45
0.022	22	9	RG5202	$1.00	$0.70	$0.60
0.033	33	14	RG5203	$1.20	$0.84	$0.72
0.047	47	10	RG5204	$1.20	$0.84	$0.72
0.047	47	14	RG5205	$1.20	$0.84	$0.72
0.10	100	14	RG5210	$1.75	$1.25	$1.05
0.22	220	14	RG5222	$1.75	$1.25	$1.05
0.47	470	23	RG5247	$2.40	$1.70	$1.45

trade card

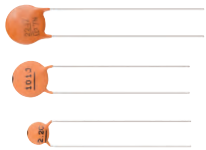
If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

For next day delivery, or Click and Collect, see page 5

Capacitors CONTINUED

50V CERAMIC



1pF - 10pF ±1/4pF
12pF - 100pF ±5%
120pF - 0.022µF ±10% (Y5P)
0.033µF - 0.1µF ±20% (Y5U)
• 5mm lead spacing • Low inductance

Value (pF)	Cat. (Pkt 2)	Value (pF)	Cat. (Pkt 2)
1.0	RC5300	100	RC5324
1.2	RC5301	120	RC5325
1.5	RC5302	150	RC5326
1.8	RC5303	180	RC5327
2.2	RC5304	220	RC5328
2.7	RC5305	270	RC5329
3.3	RC5306	330	RC5330
3.9	RC5307	390	RC5331
4.7	RC5308	470	RC5332
5.6	RC5309	560	RC5333
6.8	RC5310	680	RC5334
8.2	RC5311	820	RC5335
10	RC5312	1000	RC5336
12	RC5313	2200	RC5340
15	RC5314	3300	RC5342
18	RC5315	4700	RC5344
22	RC5316	5600	RC5345
27	RC5317	6800	RC5346
33	RC5318	8200	RC5347
39	RC5319	0.01µF	RC5348
47	RC5320	0.022µF	RC5352
56	RC5321	0.033µF	RC5354
68	RC5322	0.047µF	RC5356
82	RC5323	0.1µF	RC5360

Pkt 2	Qty 1+	Qty 25+	Qty 100+
All RC Cat Nos (Pkt 2)	$0.40	$0.27	$0.24

0.22MF 220N LEAD SPACING 5MM

	Cat.	Qty 1+	Qty 25+	Qty 100+
(Each)	RC5364	$0.85	$0.59	$0.51

50VDC MONOLITHIC

Lead spacing 5mm, low impedance

Value(µF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.01	each	RC5480	$0.44	$0.30	$0.26
0.022	each	RC5482	$0.44	$0.30	$0.26
0.047	each	RC5486	$0.44	$0.30	$0.26
0.10	each	RC5490	$0.44	$0.30	$0.26
0.10	100	RC5496	$12.90	$9.00	$7.70
0.22	each	RC5494	$0.48	$0.33	$0.28
0.47	each	RC5498	$0.94	$0.65	$0.56
1.0	each	RC5499	$0.94	$0.65	$0.56

50VDC BI-POLAR RB ELECTROLYTIC - 85˚C

Value(µF)	Size (mm)	Pitch (mm)	Ripple (ma)	Cat.	Qty 1+	Qty 25+	Qty 100+
1.0	5 x 11	2.0	8	RY6802	$0.70	$0.49	$0.42
2.2	5 x 11	2.0	20	RY6804	$0.70	$0.49	$0.42
3.3	5 x 11	2.0	25	RY6805	$0.70	$0.49	$0.42
4.7	5 x 11	2.0	30	RY6806	$0.70	$0.49	$0.42
6.8	5 x 11	2.0	40	RY6808	$0.70	$0.49	$0.42
10	6.3 x 11	2.5	48	RY6810	$0.70	$0.49	$0.42
22	8 x 11	3.5	82	RY6816	$1.50	$0.70	$0.60
33	8 x 11	3.5	98	RY6818	$1.50	$0.77	$0.65
47	8 x 11	3.5	140	RY6820	$2.05	$1.45	$1.25
100	10 x 20	5.0	245	RY6825	$3.65	$2.55	$2.20

3KV HIGH VOLTAGE CERAMIC

Value 0.01µF.

Value(µF)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.01	RC5380	$3.65	$2.55	$2.20

Capacitors - Tag Tantalum

TAG TANTALUM THRU-HOLE

• Resin dipped case
• Price per each
• 5mm lead spacing

16V

Value(µF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
4.7	5.0	RZ6636	$0.94	$0.65	$0.56
6.8	5.0	RZ6642	$1.40	$1.00	$0.85
10	5.0	RZ6648	$1.40	$1.00	$0.85
15	5.0	RZ6657	$1.40	$1.00	$0.85
22	5.0	RZ6658	$1.40	$1.00	$0.85
33	5.0	RZ6665	$3.30	$2.30	$2.00
47	5.0	RZ6670	$3.30	$2.30	$2.00

25V

Value(µF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
1.0	5.0	RZ6627	$0.94	$0.65	$0.56
10	5.0	RZ6650	$1.40	$1.00	$0.85

35V

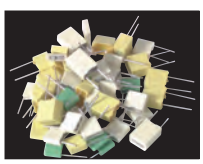
Value(µF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.10	5.0	RZ6620	$0.94	$0.65	$0.56
0.22	5.0	RZ6622	$0.94	$0.65	$0.56
0.33	5.0	RZ6624	$0.94	$0.65	$0.56
0.47	5.0	RZ6626	$0.94	$0.65	$0.56
1.0	5.0	RZ6628	$0.94	$0.65	$0.56
1.5	5.0	RZ6630	$0.94	$0.65	$0.56
2.2	5.0	RZ6632	$0.94	$0.65	$0.56
4.7	5.0	RZ6640	$1.20	$0.84	$0.72
6.8	5.0	RZ6645	$1.40	$1.00	$0.85
10	5.0	RZ6655	$1.40	$1.00	$0.85

Prototype Packs - Capacitors

• Ideal for prototyping

CERAMIC - RC5399

100V GREENPACK - RG5199



MKT - RM7190

ELECTROLYTIC - RE6250

Value	Pack	Cat.	Qty 1+	Qty 25+	Qty 100+
10pF - 100nF	60	RC5399	$12.90	$9.00	$7.70
0.001µF - 0.22µF	60	RG5199	$14.90	$10.40	$8.90
0.001µF - 0.47µF	50	RM7190	$20.90	$14.60	$12.50
1µF - 470µF	55	RE6250	$16.90	$11.80	$10.00

MKT CAPACITOR BARGAIN PACK - ASSORTED TYPES

A vast array of over 90 high quality WIMA brand X2 type and other capacitors. No two bags are the same. Excellent value for money.

Limited stock.

Note: Pack contents may vary to the one shown.

	Cat.	Qty 1+
	XB9008	$29.90

Capacitors CONTINUED

PC MOUNT RB ELECTROLYTIC - 105°C

10V

Value (µF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
220	5.0	6.5 x 11	180	RE6157	$0.44	$0.30	$0.26

16V

Value (µF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
10	2.0	5 x 11	45	RE6066	$0.38	$0.26	$0.22
22	2.0	5 x 11	60	RE6079	$0.38	$0.26	$0.22
47	2.0	5 x 11	100	RE6100	$0.44	$0.30	$0.26
100	2.5	6.3 x 11	170	RE6130	$0.44	$0.30	$0.26
220	3.5	8 x 12	280	RE6158	$0.50	$0.35	$0.30
330	3.5	8 x 12	360	RE6188	$0.62	$0.43	$0.37
470	3.5	8 x 16	460	RE6194	$0.75	$0.52	$0.45
1000	5.0	10 x 16	760	RE6220	$1.20	$0.84	$0.72
2200	5.0	13 x 23	1250	RE6238	$1.40	$1.00	$0.85
4700	7.5	16 x 26	1960	RE6243	$2.80	$1.95	$1.70

25V

Value (µF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
10	2.0	5 x 11	45	RE6070	$0.44	$0.30	$0.26
22	2.0	5 x 11	70	RE6090	$0.44	$0.30	$0.26
33	2.0	5 x 11	95	RE6095	$0.44	$0.30	$0.26
47	2.5	5 x 11	120	RE6110	$0.44	$0.30	$0.26
100	3.5	8 x 12	180	RE6140	$0.55	$0.38	$0.33
220	5.0	10 x 13	320	RE6160	$0.55	$0.38	$0.33
330	5.0	10 x 16	420	RE6190	$0.90	$0.63	$0.54
470	5.0	10 x 16	540	RE6195	$0.94	$0.65	$0.56
1000	5.0	13 x 20	900	RE6230	$1.50	$0.85	$0.75
2200	5.0	13 x 26	1460	RE6240	$1.90	$1.10	$0.95
4700	7.5	16 x 35	2150	RE6244	$4.25	$3.00	$2.55

50V

Value (µF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
4µ7	2.0	5 x 11	35	RE6058	$0.44	$0.30	$0.26
220	5.0	10 x 17	430	RE6180	$1.50	$1.05	$0.90
2200	7.5	16 x 35	1900	RE6241	$4.00	$2.80	$2.40
4700	10	22 x 40	2280	RE6245	$7.10	$4.95	$4.25

63V

Value (µF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
µ47	2.0	5 x 11	8	RE6020	$0.38	$0.26	$0.22
1µ	2.0	5 x 11	15	RE6032	$0.38	$0.26	$0.22
2µ2	2.0	5 x 11	22	RE6042	$0.38	$0.26	$0.22
3µ3	2.0	5 x 11	30	RE6045	$0.38	$0.26	$0.22
4µ7	2.0	5 x 11	40	RE6060	$0.44	$0.30	$0.26
10	2.0	5 x 11	65	RE6075	$0.44	$0.30	$0.26
22	2.5	6.3 x 11.5	100	RE6080	$0.44	$0.30	$0.26
47	3.5	8 x 12	180	RE6122	$0.55	$0.38	$0.33
100	5.0	8 x 16	280	RE6150	$1.20	$0.84	$0.72
470	5.0	13 x 25	880	RE6210	$2.05	$1.45	$1.25
1000	7.5	16 x 30	1400	RE6236	$3.00	$2.10	$1.80

tech talk 105°C Electrolytic Capacitors

Our range of RB PC mount electrolytics up to 63 Volt are 105°C rated. This makes for more reliable service. Consider this when making price comparisons with competitors' 85°C products.

PC MOUNT RB ELECTROLYTIC - 85°C

35V

Value (µF)	Pitch (mm)	Ø x H (mm)	ripple current ma	Cat.	Qty 1+	Qty 25+	Qty 100+
22	5.0	5 x 100	80	RE6092	$0.44	$0.30	$0.26

100VDC NON-POLARISED CROSSOVER TYPE - 85°C

This range is ideal for crossover networks and will handle high power but are suitable for other applications of course. The range includes large values - up to 400µF, (required for subwoofers). All capacitors have RT or axial leads.

Value(µF)	Ø x L (mm)	Cat.	Qty 1+	Qty 5+	Qty 10+
1	8 x 17	RY6901	$2.60	$2.35	$2.10
2.2	8 x 17	RY6902	$2.60	$2.35	$2.10
3.3	8 x 19	RY6903	$2.70	$2.45	$2.15
4.7	8 x 19	RY6904	$2.70	$2.45	$2.15
6.8	10 x 19	RY6906	$3.10	$2.80	$2.50
10	10 x 19	RY6908	$3.10	$2.80	$2.50
15	10 x 19	RY6910	$3.30	$2.95	$2.65
22	10 x 24	RY6912	$3.85	$3.45	$3.10
33	13 x 27	RY6914	$4.50	$2.70	$2.40
47	13 x 32	RY6916	$5.90	$5.30	$4.70
68	16 x 34	RY6918	$6.80	$6.10	$5.45
100	16 x 34	RY6920	$9.30	$8.35	$7.45
150	18 x 38	RY6924	$14.90	$13.40	$11.90
220	18 x 44	RY6928	$16.90	$15.20	$13.50
300	22 x 44	RY6932	$23.90	$21.50	$19.00
400	22 x 44	RY6936	$27.90	$25.00	$22.30

2.5V SUPER CAPACITORS - 22 & 55 FARAD

These specially engineered capacitors are actually a high-tech energy storage device - not the standard capacitors which they look identical to. Using a new combination manufacturing process where nano surface structured carbon is combined with organic electrolytes, this technique enables these capacitors to store 1,000 times the energy of a standard electrolytic capacitor. The main applications are energy storage at a circuit board level replacing the bulkier secondary batteries which are currently used. Essentially anywhere high energy storage is needed.

- 7.5mm lead spacing
- High density of energy
- Long lifetime (10 years)
- High cycle life (over 500,000 cycles)

Value (µF)	Ø x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
22	16 x 25	RE6702	$17.90	$12.30	$10.70
55	18 x 40	RE6704	$22.90	$15.70	$13.30

5.5V SUPER CAPACITOR - 0.047 FARAD & 1 FARAD

Super capacitors are a standby power source capable of providing up to 30 days back-up voltage & current to CMOS RAMs during power failures. Never needs replacing or maintenance

- Can be soldered onto PCBs
- Can be charged at high & low current rates i.e. microamps to amps
- 5mm lead spacing

Value(µF)	Ø x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.047	13 x 7.5	RU6700	$4.90	$3.45	$2.95
1.0	20 x 7.5	RU6705	$7.90	$5.50	$4.60

MOTOR RUN CAPACITORS, SINGLE PHASE, ASYNCHRONOUS

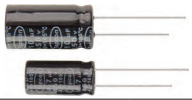
These capacitors are designed to replace the original capacitor that has failed. You must replace the part as the motor may simply not work, draw excessive current or have poor torque. These are suitable for motors operating at up to 400VAC and common values are offered here. Please note it is important to choose the correct value for the motor otherwise the starting torque of the motor will change. Two different packages are provided. For the higher valued capacitors it's necessary to use the different case style which provides the important AMP250A terminals and an inbuilt safety device.

Capacitance (µF)	W x D x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
6.0 400VAC	49 x 21 x 31	RU6600	$20.90	$14.60	$12.50
10 400VAC	50 x 25 x 36	RU6602	$20.90	$14.60	$12.50
12 400VAC	50 x 25 x 40	RU6604	$20.90	$14.60	$12.50
20 450VAC	45 x 75	RU6606	$20.90	$14.60	$12.50
30 450VAC	50 x 75	RU6608	$20.90	$14.60	$12.50

For next day delivery, or Click and Collect, see page 5

Capacitors CONTINUED

HIGH VOLTAGE RB ELECTROLYTIC



• 85°C rated

450V

**RE6156 is 400V rated.*

Value (µF)	Pitch (mm)	Ø x H (mm)	Ripple Current (ma)	Cat.	Qty 1+	Qty 25+	Qty 100+
1	3.5	10 x 14.5	12	RE6034	$2.15	$1.50	$1.30
2µ2	5.0	10 x 17	28	RE6044	$2.15	$1.50	$1.30
4µ7	5.0	10 x 20.5	48	RE6062	$3.10	$2.15	$1.85
10	5.0	13 x 21.5	75	RE6078	$4.30	$3.00	$2.60
47	8.0	17.5 x 36	285	RE6125	$9.30	$6.50	$5.60
100	13	18x42.5	521	RE6156*	$9.90	$6.95	$5.95

LOW IMPEDANCE* OR ESR[1] CAPACITORS

Stable, low impedance characteristics High ripple current* Low DC leakage current Extended life - high reliability withstanding 2,000 to 4,000 hours load life at 105°C

Radial leads on standard pitch
*Impedance: max at 20°C 100kHz
**Ripple current measured at 105°C 100kHz.
[1]Equivalent Series Resistance

10VDC

Value	Ø x H (mm)	Impedance Ω*	Ripple Current RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
220µF	6.3 x 12	0.2	340mA	RE6300	$0.52	$0.36	$0.31
470µF	8 x 11	0.13	640mA	RE6302	$0.62	$0.43	$0.37
1000µF	10 x 16	0.06	1210mA	RE6304	$1.05	$0.73	$0.63
2200µF	10 x 16	0.05	1900mA	RE6306	$1.55	$1.10	$0.95
4700µF	13 x 24	0.028	2552mA	RE6308	$2.80	$1.95	$1.70

16VDC

Value	Ø x H (mm)	Impedance Ω*	Ripple Current RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
100µF	6.3 x 11	0.22	340mA	RE6310	$0.52	$0.36	$0.31
220µF	8 x 11	0.13	640mA	RE6312	$0.58	$0.40	$0.34
470µF	8 x 16	0.087	840mA	RE6314	$1.05	$0.73	$0.63
1000µF	10 x 20	0.046	1400mA	RE6316	$1.55	$1.10	$0.95
2200µF	16 x 25	0.035	2210mA	RE6318	$2.05	$1.45	$1.25
4700µF	16 x 32	0.022	3029mA	RE6320	$3.65	$2.55	$2.20

25VDC

value	Ø x H (mm)	Impedance Ω*	Ripple current RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
100µF	8 x 11	0.22	340mA	RE6322	$0.62	$0.43	$0.37
220µF	8 x 12	0.13	640mA	RE6324	$0.62	$0.43	$0.37
470µF	10 x 16	0.060	1210mA	RE6326	$1.50	$0.90	$0.80
1000µF	13 x 20	0.035	1900mA	RE6328	$1.90	$1.10	$0.95
2200µF	16 x 25	0.022	2743mA	RE6330	$2.50	$1.40	$1.20

35VDC

Value	Ø x H (mm)	Impedance Ω*	Ripple Current RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
47µF	6.3 x 11	0.22	340mA	RE6332	$0.52	$0.36	$0.31
100µF	8 x 11	0.13	640mA	RE6334	$0.62	$0.43	$0.37
220µF	10 x 16	0.09	840mA	RE6336	$1.00	$0.70	$0.60
470µF	10 x 20	0.046	1400mA	RE6338	$1.75	$1.25	$1.05
1000µF	16 x 25	0.035	2552mA	RE6340	$2.50	$1.40	$1.20

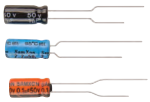
63VDC

Value	Ø x H (mm)	Impedance Ω*	Ripple Current RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
22µF	6.3 x 11	0.70	180mA	RE6342	$0.52	$0.36	$0.31
47µF	8 x 11.5	0.30	295mA	RE6344	$0.62	$0.43	$0.37
100µF	10 x 20	0.12	760mA	RE6346	$1.50	$0.90	$0.80
220µF	10 x 20	0.060	1220mA	RE6348	$1.55	$1.10	$0.95
470µF	16 x 20	0.043	1690mA	RE6350	$2.15	$1.50	$1.30

tech talk — Low ESR Capacitors

ESR means Equivalent Series Resistance. Ordinary electrolytics are constructed in such a way that they can be quite "leaky", i.e. will conduct a small amount of DC current. They have a fairly high impedance. This is not a problem if they are just used to filter 50 or 100Hz pulsating DC in a linear power supply. It is a problem if there is a high repetition pulse on, say, a switchmode DC supply line that needs to be filtered. A pulse train of, say, 50kHz will be virtually "ignored" by a standard electrolytic. A low ESR device has the ability to integrate the pulses into a smooth DC rail, and as a bonus not heat up in the process.

RBLL LOW LEAKAGE ELECTROLYTIC



• 85°C rated Leakage characteristic similar to tantalum caps, but at a lower price

25V

Value	Lead Spacing	Size Ø X H	Cat.	Qty 1+	Qty 25+	Qty 100+
22µF	2.5mm	6.3 x 11mm	RL6430	$0.80	$0.56	$0.48
33µF	2.5mm	6.3 x 11mm	RL6432	$0.80	$0.56	$0.48
47µF	3.5mm	8 x 12mm	RL6434	$1.20	$0.84	$0.72
100µF	3.5mm	8 x 12mm	RL6436	$1.35	$0.95	$0.80

50V

Value	Lead Spacing	Size Ø X H	Cat.	Qty 1+	Qty 25+	Qty 100+
0µ1µF	2.0mm	5 x 11mm	RL6402	$0.60	$0.42	$0.36
0µ22µF	2.0mm	5 x 11mm	RL6406	$0.60	$0.42	$0.36
0µ33µF	2.0mm	5 x 11mm	RL6408	$0.60	$0.42	$0.36
0µ47µF	2.0mm	5 x 11mm	RL6410	$0.60	$0.42	$0.36
0µ68µF	2.0mm	5 x 11mm	RL6412	$0.60	$0.42	$0.36
1µ0µF	2.0mm	5 x 11mm	RL6414	$0.60	$0.42	$0.36
1µ5µF	2.0mm	5 x 11mm	RL6418	$0.60	$0.42	$0.36
2µ2µF	2.0mm	5 x 11mm	RL6420	$0.60	$0.42	$0.36
3µ3µF	2.0mm	5 x 11mm	RL6422	$0.60	$0.42	$0.36
4µ7µF	2.0mm	5 x 11mm	RL6424	$0.60	$0.42	$0.36
10µF	2.5mm	6.3 X 11mm	RL6428	$0.83	$0.58	$0.49

RP ELECTROLYTIC

This style of capacitor is distinguished because, whilst bulky, does not need a chassis clamp. Fixing is by the stout lead wires. While soldered retention is generally adequate. For applications where vibration is an issue a dab of silicone under the component is recommended. 85°C rated

40V

Value	Ripple Current	Size	Cat.	Qty 1+	Qty 25+	Qty 100+
5600µF	2.4A	26 x 42mm	RU6709	$10.90	$7.60	$6.50
10000µF	2.7A	26 x 51mm	RU6720	$14.90	$10.40	$8.90

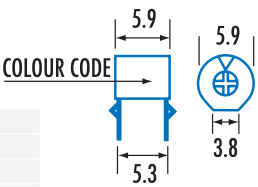
RG CHASSIS MOUNT ELECTROLYTIC

• 85°C rated

Value	Ripple Current	Size Ø x H	Volt	Cat.	Qty 1+	Qty 25+	Qty 100+
4000µF	4.6A	35 x 51mm	75V	RU6708	$14.90	$10.40	$8.90
8000µF	3.47A	35 x 76mm	80V	RU6710	$18.90	$13.20	$11.30
10000µF	8.1A	50 x 80mm	100V	RU6712	$35.90	$25.00	$21.50

All supplied with mounting bracket. Height and diameter column excludes lugs - 8mm.

Trimmers

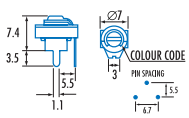


SPECIFICATIONS	ALL
Working Voltage	50V DC.
Insulation Resistance	>104MΩ min at 250VDC.
Operating Temp	-30°C to +85
Withstand Voltage	110VDC
Turning Torque	20 to 200gr/cm

Cap(pF)	Temp Co-efficient	Colour	Cat.	Qty 1+	Qty 25+	Qty 100+
3-10	N470	White	RV5714	$2.30	$1.60	$1.40
6.2-30	N750	Green	RV5716	$2.30	$1.60	$1.40
6.8-40	N1200	Yellow	RV5718	$2.30	$1.60	$1.40
9.8-50	N1200	Brown	RV5720	$2.30	$1.60	$1.40

8.5-100PF CERAMIC TRIMMER

SPECIFICATIONS	RV5722
Working Voltage	225VDC.
Insulation Resistance	>104MΩ min at 250VDC.
Withstand Voltage 500VDC.	500VDC
Temerature coefficient	N2200.
Colour	Purple



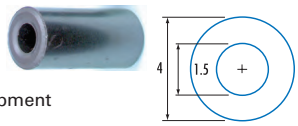
Capacitance(pF)	Voltage	Cat.	Qty 1+	Qty 25+	Qty 100+
8.5-100	225VDC	RV5722	$3.65	$2.55	$2.20

Ferrites

FERRITE BEAD

These small tubes can be threaded on to a wire to provide RF or interference suppression at frequencies higher than the normal operating range of the equipment to be protected.

Product may vary from image

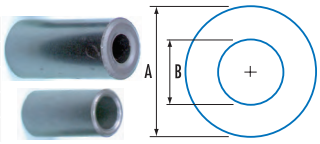


Length(mm)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
5.0	6	LF1250	$4.90	$3.45	$2.95

FERRITE SUPPRESSION SLEEVES

Similar to suppression beads (see above) but longer for greater attenuation.

CAT.	TYPICAL IMPEDANCE	
	(Z)@25MHz	(Z)@100MHz
LF1256	52	66
LF1258	130	200
LF1260	161	255

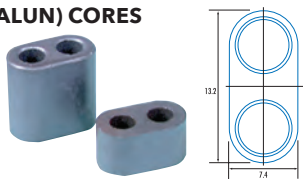


Length (mm)	A (mm)	B (mm)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
16	8.0	5.6	6	LF1256	$5.90	$4.15	$3.55
20	12	5.6	6	LF1258	$8.00	$5.60	$4.80
29	16	8.0	6	LF1260	$9.30	$6.50	$5.60

STANDARD TRANSFORMER (BALUN) CORES

Generally used in VHF/ UHF circuits for balanced or unbalanced line matching. Can also be used as a lossy choke, etc.

- Material: Type M7
- Insertion Loss: 40-220MHz 0.5dB > 220MHz 1.0dB



Length(mm)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
6.0	2	LF1222	$3.10	$2.15	$1.85
14	2	LF1220	$3.10	$2.15	$1.85

FERRITE FLAT BAR

- Short and compact
- Ideal for MW tuned circuits
- Frequency: 0.5 - 10MHz
- Also suitable for suppression work

L x W x D (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
40 x 12 x 5	LF1016	$3.10	$2.15	$1.85

FERRITE ROUNDS

- 9mm diameter
- Material S-1
- Ideal for MW tuned circuits or suppression work

Ø x W (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
9 x 100	LF1010	$3.10	$2.15	$1.85
9 x 180	LF1012	$6.50	$4.55	$3.90

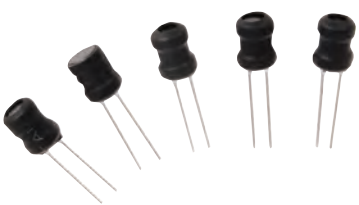
FERRITE ROD WITH COIL

Small ferrite rod complete with pre-wound standard broadcast band coil. Ideally suitable to our 60-160pf mini tuning capacitor.

L x W x D (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
55 x 12.5 x 4.5	LF1020	$4.30	$3.00	$2.60

HIGH FREQUENCY FERRITE CHOKE

PCB mounting ferrite chokes suitable for high frequency circuits.



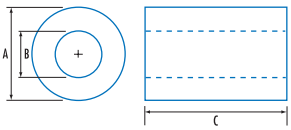
Inductance	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
47µH	5.0	LF1100	$1.05	$0.73	$0.63
100µH	5.0	LF1102	$1.05	$0.73	$0.63
330µH	5.0	LF1106	$1.05	$0.73	$0.63
470µH	5.0	LF1108	$1.05	$0.73	$0.63

TOROID (OR RING) CORES

Toroid (both ferrite and powered iron) are commonly used as cores for transformers or chokes mainly for RF suppression but also for any application where a compact reactive component is needed.

FERRITE MATERIAL

Drawing for both ferrite and powdered iron types. See website for more info.



MATERIAL L8 SIZE 18(A) X 10(B) X 6(C) (MM)

Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
6	LO1230	$4.30	$3.00	$2.60

MATERIAL L8 SIZE 25(A) X 15(B) X 10(C) (MM)

Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
4	LO1234	$5.90	$4.15	$3.55

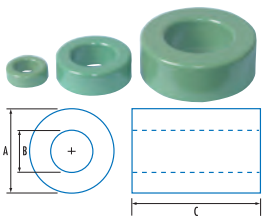
MATERIAL L15 SIZE 35(A) X 21(B) X 13(C) (MM)

Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
2	LO1238	$5.90	$4.15	$3.55

POWDERED IRON CORES

These toroids are made out of compressed powdered iron and coated with a tough epoxy material. They are ideal for RF suppression of light dimmers, motor speed controllers, switch mode power supplies etc.

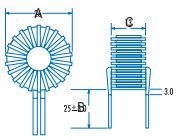
- Colour: Green epoxy coating
- Contact us for bulk quantity prices
- Material HY-2



A x B x C (mm)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
15 x 8 x 6.5	4	LO1242	$8.00	$5.60	$4.80
28 x 14 x 11	2	LO1244	$6.80	$4.75	$4.10
42 x 22 x 17	1	LO1246	$10.90	$7.60	$6.50

THROUGH HOLE EMC/RFI SUPPRESSION CHOKES

Ideal for all wideband choke applications. Highly effective against EMI/RFI entering equipment via the mains power lines. Powdered iron core.



SPECIFICATIONS	LF1270	LF1272	LF1274	LF1276	LF1278
RDC mΩ	50	25	25	60	82
Wire Dia mm	1.0	0.8	1.0	1.0	1.0
Dimension A mm	26	21	24.5	28.5	31
Dimension B mm	25	10	10	10	10
Dimension C mm	13	10.5	10	13	17

Inductance (µH)	Current (A)	Cat.	Qty 1+	Qty 25+	Qty 100+
100	3A	LF1272	$4.90	$3.45	$2.95
100	5A	LF1270	$4.90	$3.45	$2.95
47	5A	LF1274	$4.90	$3.45	$2.95
220	5A	LF1276	$7.40	$5.20	$4.45
470	5A	LF1278	$8.60	$6.00	$5.15

SMS TYPE EMC/RFI SUPPRESSION CHOKES

These popular devices complement our wire - terminated LF1270 style ferrite chokes. Good suppression of RF-EMI from DC/DC converters or any circuit which generates commutation noise etc. which needs to be suppressed to meet regulations. Supplied in bags of 10 cut from a tape reel.

LF1400 LF1402

SPECIFICATIONS	LF1400	LF1402
Inductance	100uH±10%	100uH±20%
Series DC Resistance (RDC)	0.99Ω	179.6mΩ max
Rated DC Current	520mA	1.8A
Size	5.8 x 4.5mm	12 x 12 x 8mm

Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
10	LF1400	$9.90	$6.95	$5.95
10	LF1402	$15.90	$11.00	$9.50

For next day delivery, or Click and Collect, see page 5

Ferrites CONTINUED

Ferrite is a ceramic material with Iron Oxide - up to 50% - then with oxides of manganese and zinc or nickel. The ceramic material is mixed with these substances, pressed or extruded into useful shapes and finally fired in a furnace to their final hard, brittle state. From this there are two forms: Manganese - Zinc (Mn-Zn) ferrites which are the most common and are used for lower frequency work. They have higher permeability than the higher frequency type which have Nickel and Zinc Oxide components. The products shown in this catalogue are Mn-Zn types. For more information check our website.

FLAT CABLE SUPPRESSION SLEEVES

These devices are designed to suppress high frequency (fast rise time) interference (radiation) to and from PC boards, printers, disk drives etc. The ferrite makes the cable behave like a high impedance choke at high frequencies.

FOR 16 WAY RIBBON CABLE

Typical Impedance	25MHz	100MHz	Cat.	Qty 1+	Qty 25+	Qty 100+
Pkt 2	54Ω	120Ω	LF1280	$7.40	$5.20	$4.45

FOR 26 WAY RIBBON CABLE

Typical Impedance	25MHz	100MHz	Cat.	Qty 1+	Qty 25+	Qty 100+
Each	38Ω	91Ω	LF1284	$8.60	$6.00	$5.15

FOR 50 WAY RIBBON CABLE

Typical Impedance	25MHz	100MHz	Cat.	Qty 1+	Qty 25+	Qty 100+
Each	72Ω	190Ω	LF1286	$15.90	$11.00	$9.50

Round Cable Suppression Sleeves

Basically a split high permeability ferrite core with a plastic case, these devices are ideal where parasitic voltage spikes or RF breakthrough are a problem or potential problem. The cores come in a hinged plastic case, simply snap on to the computer or data cable. Three versions are offered which cover most computer leads etc. For extra security, lock assembly together with a cable tie.

TYPICAL IMPEDANCE VS FREQUENCY

(Rise Time of Interference Signal) Note: All figures are approximate

MODEL	CABLE DIA	1MHZ	25MHZ	50MHZ	100MHZ	300MHZ	500MHZ
U-25	12.5	10Ω	150Ω	200Ω	250Ω	290Ω	200Ω
U-16	8.3	20Ω	100Ω	200Ω	220Ω	150Ω	<100Ω
U-15	7.0	<10Ω	160 Ω	220-250Ω	280Ω	300+Ω	245Ω

PLEASE NOTE:

- *Full specifications available on website.*
- *If the cable can be looped through the core twice or more (obviously only for thinner cables) the attenuation is increased substantially.*

MODEL U25:

This offers impedance (peak approx 300Ω at 2-300MHz)with negligible impedance below 1MHz. Plastic casemeasures 32L x 30mm square. It will take a lead up to 12mm (1/2") diameter but preferably 10mm.

MODEL U16:

A compact attenuator that will pass a cable up to 8mm dia (most monitor cables etc). Typical impedance at 25MHz 300Ω approx, 590Ω at 100MHz dropping off after that.

- Case measures 25.9(L) x21.5(Dia)mm

MODEL U15:

This model is for 7mm dia cable or smaller.

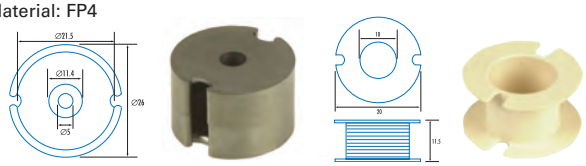
- Offers good protection up to 500MHz

	Cat.	Qty 1+	Qty 25+	Qty 100+
Each	LF1290	$12.90	$9.00	$7.70
Pkt 4	LF1292	$15.90	$11.00	$9.50
Pkt 2	LF1294	$12.90	$9.00	$7.70

Pot Core & Bobbin

This handy sized pot core set is made from low loss material and is equivalent to the original Philips FX 2240 part.

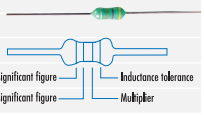
- Size (each half): 26(OD) x 11.5(ID) x 8(H)mm
- Material: FP4



	Cat.	Qty 1+	Qty 25+	Qty 100+
Pot Core - pair	LF1060	$8.60	$6.00	$5.15
Bobbin to suit	LF1062	$1.65	$1.15	$1.00

RF Chokes

SPECIFICATIONS	ALL MODELS
Axial Leads	Colour coded per IEC
Tolerance	±10%,
Rated Temp. Rise	-20°C to +80°C
Dielectric Withstanding Voltage	250Vrms



(µH) DC INDUCTANCE	RATED RESISTANCE (Ω)	DC CURRENT MAX	CAT.
1µ0	0.09	920mA	LF1510
1µ5	0.23	830mA	LF1512
2µ2	0.28	750mA	LF1514
3µ3	0.34	670mA	LF1516
4µ7	0.39	620mA	LF1518
6µ8	0.48	550mA	LF1520
10	0.58	500mA	LF1522
15	0.72	460mA	LF1524
22	0.84	410mA	LF1526
33	1.03	370mA	LF1528
47	1.22	340mA	LF1530
68	1.47	305mA	LF1532
100	1.80	275mA	LF1534
150	4.20	175mA	LF1536
220	5.10	155mA	LF1538
330	6.40	137mA	LF1540
470	7.70	126mA	LF1542
680	9.40	113mA	LF1544
1000	14.00	100mA	LF1546

	Qty 1+	Qty 25+	Qty 100+
All of the above	$0.94	$0.65	$0.56

Ferrite RF Coil Pack

MINI RF COIL PACK

Set of 4 standard coils for AM section of a superheterodyne receiver with 455kHz. IF offset. Colour dot on top of ferrite slug indicates type.

- Red is the oscillator coil
- White is the first 455kHz IF
- White is the 2nd
- Black is the 3rd

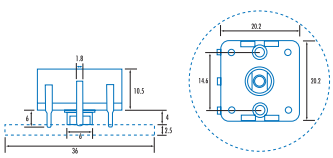
See website for more information

	Cat.	Qty 1+	Qty 25+	Qty 100+
	LF1050	$7.40	$5.20	$4.45

Mini Tuning Gang Capacitor

As used in most transistor radios and many kits that incorporate a radio.

- Size 20 x 20 x 10.5 high (mm)
- Supplied with 35(mm) dia. plastic knob & screw
- Capacitance range 60 - 160pF
- Suitable Ferrite Aerial Coil shown on p105 Cat. LF1020



	Cat.	Qty 1+	Qty 25+	Qty 100+
20 x 20 x 10.5	RV5728	$5.90	$4.15	$3.55

EMI Filters

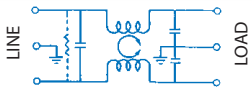
IEC EMI POWER LINE FILTER - 6 AMP

These Industry standard design RF/EMI filters are designed to reduce line - to - ground (common mode) interference. They accept a standard IEC power line connector and are panel mounted. They meet (or exceed) international standard leakage requirements and are rated for mains voltages of 115 to 250V, 50, 60Hz.

- Safety & construction are in compliance with UL, CSA, VDE

SPECIFICATIONS	MS4003
Rated Voltage	115/250VAC
Power Line Freq	50/60Hz
Rated Current	6 amps
Maximum Leakage Current	@ 115 VAC 60Hz 0.25mA
Line To Ground	@ 250VAC 50Hz 0.50mA
Test Voltage	Line to ground: 2250VDC, one minute Line to line: 1450VDC, one minute
Typical Insertion Loss (dB) =	Line-to-ground in 50Ω system.

Current	Freq (MHz)					
Rating	0.15	0.5	1	5	10	30
6A	10	20	25	42	45	50



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS4003	$11.90	$10.70	$9.50

240V AC EMI FILTER

Designed for mounting inside a chassis, these industry standard RF/EMI filters are predesigned to reduce line-to-ground (common mode) interference. Rated for mains voltages of 125 or 240VAC 50 or 60Hz, they are very useful when mains cords are fixed to the outside chassis and an IEC320 inlet is not suitable.

1 YEAR LIMITED WARRANTY

POWERTECH MS4000

SPECIFICATIONS	MS4000/MS4001
Rated Voltage	250VAC, 50Hz
Rated Current	10A
Leak Current	0.8mA max
Insulation Resistance	100M Ω min
Attenuation	1 - 50MHz
Termination	PCB mounting pins (MS4000) & solder tags (MS4001)
Dimensions: MS4000	36(L) x 31(W) x 19(H)mm
Dimensions: MS4001	50(L) x 25(W) x 31(H)mm

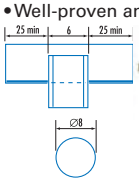
	Cat.	Qty 1+	Qty 25+	Qty 100+
PCB Mount - 4 Way	MS4000	$9.90	$8.90	$7.90
Chassis Mount - 6 Way	MS4001	$11.90	$8.30	$7.10

Surge Arrestors

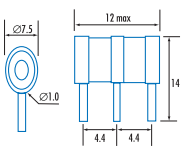
GAS DISCHARGE TYPE SURGE ARRESTERS

Gas discharge arresters are ideal for quenching high voltage, fast rise-time interference transients. They are very high impedance (virtually open circuit) in the normal state with a typical capacitance of 1pF between electrodes. When a voltage spike appears, they arc over and present a relatively low impedance in this condition effectively quenching the spike. They are suitable for protection of telecom lines and antenna circuits. They are not recommended to be fitted across mains circuits as the low source impedance of the mains could destroy these devices after the fault spike oh no! has cleared.

- Well-proven and reliable device



RS5422



RS5424/26

DC SPARK OVER VOLTAGE	AXIAL 2 ELECTRODES	PCB MOUNT 3 ELECTRODES
90V ±20%		Cat. RS5424
230V ±15%	Cat. RS5422	Cat. RS5426

MANUFACTURERS: CONTACT US FOR BULK PRICES.

		Cat.	Qty 1+	Qty 10+	Qty 25+
230V	2 Electrodes	RS5422	$12.90	$11.60	$10.30
90V	3 Electrodes	RS5424	$12.90	$11.60	$10.30
230V	3 Electrodes	RS5426	$12.90	$11.60	$10.30

Voltage Protection

METAL OXIDE VARISTORS (MOV)

Ideal protection against voltage spikes or transients. Most mains filters have MOVs. Helps to prevent damage to sensitive equipment such as microprocessors and digital electronics.

- Resin dipped case
- Prices per unit

Volt	DIA	Clamping Voltage	peak Current	Max Energy	Cat.	Qty 1+	Qty 10+	Qty 25+
10VAC	8	143V	100A	0.4J	RN3411	$2.30	$1.90	$1.70
10VAC	13.5	18V	500A	2.8J	RN3412	$2.30	$1.90	$1.70
10VAC	17.5	143V	1000A	6.6J	RN3413	$2.30	$1.90	$1.70
275VAC	13.5	710V	2500A	60J	RN3406	$2.30	$1.90	$1.70
275VAC	17.5	710V	4500A	115J	RN3400	$2.30	$1.90	$1.70
275VAC	24	710V	6500A	190J	RN3404	$2.30	$1.90	$1.70
460VAC	13.5	750V	2500A	125J	RN3415	$2.30	$1.90	$1.70
460VAC	17.5	750V	4500A	203J	RN3416	$2.30	$1.90	$1.70
460VAC	24	1240V	6500A	266J	RN3417	$2.30	$1.90	$1.70

Transient Voltage Suppressors (TVS)

- Excellent clamping voltage
- Low Zener impedance
- Fast response time
- Operating & storage temperature -55°C to 175°C

400W RANGE (DC)

- Peak power: 400W
- Steady state: 1W

Standoff Voltage	VBR	Clamp Voltage	Peak	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
5.5V	6.12	10.8V	38A	D0-41	ZR1150	$2.15	$1.95	$1.70
12.1V	13.5	22.0V	19A	D0-41	ZR1152	$2.15	$1.95	$1.70
12.9V	14.4	23.5V	18A	D0-41	ZR1154	$2.15	$1.95	$1.70

400W RANGE (AC)

- Peak power: 400W
- Steady state: 1W

Standoff Voltage	VBR	Clamp Voltage	Peak	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
12.8V	14.3	21.2V	20A	D0-41	ZR1160	$2.30	$2.05	$1.85
13.6V	15.2	22.5V	19A	D0-41	ZR1162	$2.30	$2.05	$1.85
342V	380	548V	0.7A	D0-41	ZR1164	$5.90	$5.30	$4.70

DO-41

DO-201

1500W RANGE (DC)

- Peak power: 1500W
- Steady state: 5W

Standoff Voltage	VBR	Clamp Voltage	Peak	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
12.1V	13.5	22V	69.1A	D0-201	ZR1168	$3.65	$3.30	$2.90
12.9V	14.4	23.5V	64.7A	D0-201	ZR1170	$3.65	$3.30	$2.90

1500W RANGE (AC)

- Peak power: 1500W
- Steady state: 5W

Standoff Voltage	VBR	Clamp Voltage	Peak	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+
13.6V	15.2	22.5V	67.6A	D0-201	ZR1175	$5.90	$5.30	$4.70
30.8V	34.2	49.9V	30.5A	D0-201	ZR1177	$5.90	$5.30	$4.70
342V	380	548V	2.8A	D0-201	ZR1180	$7.40	$6.65	$5.90

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

For next day delivery, or Click and Collect, see page 5

Plastic Knobs

HK7760 HK7762 HK7764 HK7766 HK7705 HK7713 HK7770 HK7772 HK7788 HK7549

HK7707 HK7715 HK7709 HK7717 HK7711 HK7787 HK7730 HK7731 HK7732 HK7733 HK7734 HK7700

FLUTED PLASTIC WITH POINTER SLOT & SKIRT

Grubscrew fixing - brass insert. Suit 0.25"/6.35mm shaft.

LIFETIME GUARANTEE

LIFETIME WARRANTY ON ALL KNOBS!

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	16 x 14	HK7760	$2.05	$1.85	$1.65
Black	20 x 16	HK7762	$2.65	$2.40	$2.10
Black	24 x 20	HK7764	$3.10	$2.80	$2.50
Black	35 x 19	HK7766	$4.25	$3.85	$3.40

PUSH ON - COLOURED CAP

Suit 0.25"/6.35mm shaft.

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Red	18 x 20	HK7705	$1.50	$0.90	$0.80
Yellow	18 x 20	HK7713	$1.50	$0.90	$0.80
Black	18 x 20	HK7707	$1.50	$0.90	$0.80
White	18 x 20	HK7715	$1.50	$0.90	$0.80
Blue	18 x 20	HK7709	$1.50	$0.90	$0.80
Grey	18 x 20	HK7717	$1.50	$0.90	$0.80
Green	18 x 20	HK7711	$1.50	$0.90	$0.80

BLACK PLASTIC WITH POINTER

Brass ferrule insert. Suit 0.25"/6.35mm shaft.

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	23 x 14	HK7787	$2.30	$2.05	$1.85

METRIC

Suits our 9mm Mini Potentiometers. Matches HK7760/66 series. Fits all standard metric shafts, including RP8504 series, RP8610 series & RP8706 series on opposite page.

LIFETIME GUARANTEE

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	15 x 14	HK7770	$2.15	$1.95	$1.70
Black	20 x 16	HK7772	$2.65	$2.40	$2.10

SKIRT NUMBERED 1-10

Grubscrew fixing - brass ferrule insert. Suit 0.25"/6.35mm shaft.

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Silver/Black	29 x 18	HK7788	$4.25	$3.85	$3.40
Silver/Black	36 x 23.5	HK7549	$4.25	$3.85	$3.40

PUSH ON - 18T SPLINE

Suits our 9mm Mini Potentiometers. Matches HK7760/66 series. Fits all standard metric shafts.

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Grey/Red	13 x 18	HK7730	$1.50	$0.99	$0.90
Grey/Yellow	13 x 18	HK7731	$1.50	$0.99	$0.90
Grey/Green	13 x 18	HK7732	$1.50	$0.99	$0.90
Grey/Blue	13 x 18	HK7733	$1.50	$0.99	$0.90
Grey/White	13 x 18	HK7734	$1.50	$0.99	$0.90

PLASTIC POINTER

Suit 0.25"/6.35mm shaft.

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	19 x 32	HK7700	$2.05	$1.85	$1.65

CAUTION WHEN ORDERING!

When ordering knobs (from any supplier) double check that the knob you are getting will fit the shaft of the component you are using it with. For example a knob with a 6mm shaft hole will not accept a 1/4" shaft. As you are probably aware 1/4" equals 6.35mm.

That 0.35mm is enough to render the knob unusable. So called "metric" knobs often have an 18 spline interference fit hole suitable only for push-on type aluminium shafts. Note: Apart from metric, all knobs shown on this page fix to 0.25" /6.35mm shafts (with flat) unless otherwise stated.

Aluminium / Plastic Insert Knobs

HK7020 HK7022 HK7009 HK7010 HK7011

HK7786 HK7740 HK7741 HK7742

BRUSHED ALUMINIUM

Ideal for HiFi projects.
- Suit 0.25"/6.35mm shaft
- Grub screw fixing

LIFETIME GUARANTEE

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Silver	16 x 14	HK7020	$4.25	$3.85	$3.40
Silver	22 x 14	HK7022	$4.50	$4.05	$3.60

BLACK ANODISED ALUMINIUM

Grub screw fixing. Suit 0.25"/6.35mm shaft.

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	16 X 14	HK7009	$4.25	$3.85	$3.40
Black	22 x 14	HK7010	$4.50	$4.05	$3.60
Black	29 x 14	HK7011	$5.90	$5.30	$4.70

BLACK PLASTIC WITH ALUMINIUM INSERT

White pointers - brass insert.
Grub screw fixing.
Suit 0.25"/6.35mm shaft.

LIFETIME GUARANTEE

LIFETIME WARRANTY ON ALL KNOBS!

Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Silver/Black	20 x 18	HK7786	$3.55	$3.20	$2.85
Silver/Black	27 x 15	HK7740	$2.30	$2.05	$1.85
Silver/Black	32 x 17	HK7741	$3.00	$2.70	$2.40
Silver/Black	45 x 20	HK7742	$5.80	$5.20	$4.65

Potentiometers

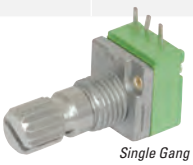
9MM SQUARE PCB MOUNTING

These pots are rapidly becoming the industry standard for miniaturised audio, digital and telecommunications equipment. This series features good solder bath immersion resistance, 300° rotation and standard 18 tooth metric pre-cut actuator shafts. Two popular metric knobs are now carried, however metric knobs are now commonly available. Both single and dual gang types are stocked in log and linear resistance tapers.

ELECTRICAL	LINEAR TAPER (B)	OTHER TAPER	MECHANICAL	
Rated Wattage	0.05W	0.02W	Rotation Angle	300° ±5°
Rated Voltage	50VAC	50VAC	Rotation Torque	20~250gf.cm
Slider Noise	<100mV		Stop Strength	5kgf.cm/min.
Insulation Resistance	>100MΩ at 250VDC			
Dielectric	300VAC/Minute			
Tracking Error	Within 3dB at 40-0dB			

LOG SINGLE GANG (A)

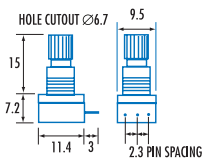
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP8610	$4.30	$3.45	$3.00
50kΩ	RP8616	$4.30	$3.45	$3.00



Single Gang

LINEAR SINGLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP8504	$4.30	$3.45	$3.00
10kΩ	RP8510	$4.30	$3.45	$3.00
50kΩ	RP8516	$4.30	$3.45	$3.00
100kΩ	RP8518	$4.30	$3.45	$3.00
1MΩ	RP8524	$4.30	$3.45	$3.00



Suitable knobs ar HK7770/72 shown on previous page

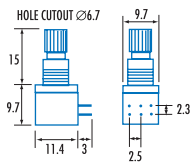
LOG DOUBLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP8756	$5.90	$4.70	$4.15
50kΩ	RP8760	$5.90	$4.70	$4.15

Double Gang

LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP8706	$5.90	$4.70	$4.15
50kΩ	RP8710	$5.90	$4.70	$4.15
100kΩ	RP8712	$5.90	$4.70	$4.15



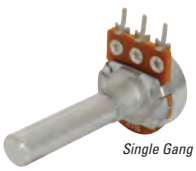
16MM PCB MOUNTING

These pots have imperial standard shaft.

- Shaft is 1/4" D type (30% of shaft has been removed for flat), so they suit all our knob range
- Shaft length is 30mm
- Power rating Linear 0.125W and Log 0.06W
- Max operating voltage: 150VAC
- Supplied with nut and washer

LOG SINGLE GANG (A)

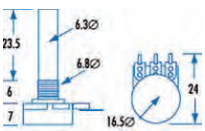
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP7604	$3.10	$2.50	$2.15
10kΩ	RP7610	$3.10	$2.50	$2.15
50kΩ	RP7616	$3.10	$2.50	$2.15



Single Gang

LINEAR SINGLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP7504	$3.10	$2.50	$2.15
5kΩ	RP7508	$3.10	$2.50	$2.15
10kΩ	RP7510	$3.10	$2.50	$2.15
50kΩ	RP7516	$3.10	$2.50	$2.15
100kΩ	RP7518	$3.10	$2.50	$2.15
1MΩ	RP7524	$3.10	$2.50	$2.15



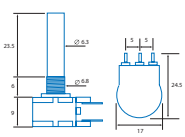
LOG DOUBLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP7756	$4.30	$3.45	$3.00

Double Gang

LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
50kΩ	RP7708	$4.30	$3.45	$3.00
100kΩ	RP7712	$4.30	$3.45	$3.00



24MM PCB MOUNTING

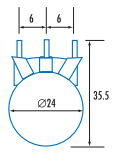
With imperial standard shaft & bushings made to our rigid engineering specifications. The potentiometers are full size - 24mm diameter types. They have genuine 6.35mm (1/4") shafts with a flat machined 25% of the diameter for grubscrews or interference fit knob mounting. The shaft is a generous 38mm long. The bush is a 3/8" 32T.H.D. type which we believe is necessary for good fixing to a panel. Another important feature of the pots is their PCB mount capability. The pins are rigidly mounted on phenolic with the centre pin offset from the two outer terminals. When soldered into a PCB, the pot is quite rigidly held on its own. Double gang pots are held in 6 places and require no extra mechanical mounting assistance. The pins are large enough to terminate screened cable, etc., if the job requires hard wiring.

- We have stocked this product for over 10 years now and have no intention of changing it. You can therefore confidently design around this product
- Supplied with nut and washer
- Power rating Log 0.25W and Linear 0.5W

LOG SINGLE GANG (A)

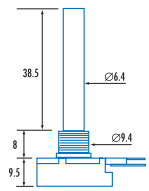
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP3604	$3.65	$2.90	$2.55
5kΩ	RP3608	$3.65	$2.90	$2.55
10kΩ	RP3610	$3.65	$2.90	$2.55
25kΩ	RP3614	$3.65	$2.90	$2.55
50kΩ	RP3616	$3.65	$2.90	$2.55
100kΩ	RP3618	$3.65	$2.90	$2.55
250kΩ	RP3620	$3.65	$2.90	$2.55
500kΩ	RP3622	$3.65	$2.90	$2.55
1MΩ	RP3624	$3.65	$2.90	$2.55

SINGLE GANG



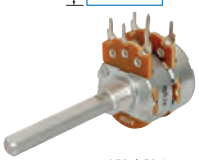
LINEAR SINGLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
500Ω	RP3502	$3.65	$2.90	$2.55
1kΩ	RP3504	$3.65	$2.90	$2.55
5kΩ	RP3508	$3.65	$2.90	$2.55
10kΩ	RP3510	$3.65	$2.90	$2.55
25kΩ	RP3514	$3.65	$2.90	$2.55
50kΩ	RP3516	$3.65	$2.90	$2.55
100kΩ	RP3518	$3.65	$2.90	$2.55
250kΩ	RP3520	$3.65	$2.90	$2.55
500kΩ	RP3522	$3.65	$2.90	$2.55
1MΩ	RP3524	$3.65	$2.90	$2.55

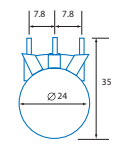


LOG DOUBLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP3756	$5.60	$4.50	$3.90
50kΩ	RP3760	$5.60	$4.50	$3.90
100kΩ	RP3762	$5.60	$4.50	$3.90

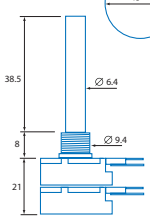


DOUBLE GANG



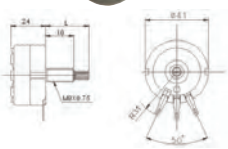
LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP3706	$5.60	$4.50	$3.90
25kΩ	RP3708	$5.60	$4.50	$3.90
50kΩ	RP3710	$5.60	$4.50	$3.90
100kΩ	RP3712	$5.60	$4.50	$3.90



5Ω 15W WIREWOUND

SPECIFICATIONS	RP3975
Resistance	5Ω
Resistance Curve	Linear (B)
Rated Wattage	15 Watts
Shaft	Spline (metric)
Body Measures	41mm OD x 24mm Depth
Shaft Length	20mm; 9.0mm hole required
Lugs	Solder Type
Total Rotation Angle	300° ±5°
Rotation Torque	70~400gf.cm
Stopper Strength	10kgf.cm



	Cat.	Qty 1+	Qty 10+	Qty 50+
	RP3975	$16.90	$13.50	$11.80

POTENTIOMETER NUTS

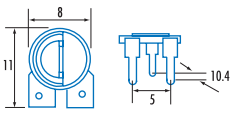
Packet of 12 nuts and washer to suit our pots.

		Cat.	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THD	RP3500	$4.30	$3.45	$3.00
16mm	Metric	RP7500	$4.30	$3.45	$3.00

For next day delivery, or Click and Collect, see page 5

Trimpots

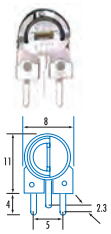
HORIZONTAL MINI TRIMPOTS
OPEN CARBON TYPE



VALUE	CAT.	VALUE	CAT.
500Ω	RT4304	20kΩ	RT4314
1kΩ	RT4306	50kΩ	RT4316
2kΩ	RT4308	100kΩ	RT4318
5kΩ	RT4310	200kΩ	RT4320
10kΩ	RT4312	500kΩ	RT4324

Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	$0.62	$0.43	$0.37

VERTICAL TRIMPOTS 5MM
OPEN CARBON TYPE

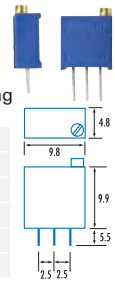


VALUE	CAT.	VALUE	CAT.
200Ω	RT4006	50kΩ	RT4020
500Ω	RT4008	100kΩ	RT4022
1kΩ	RT4010	250kΩ	RT4024
5kΩ	RT4014	500kΩ	RT4026
10kΩ	RT4016	1MΩ	RT4028
20kΩ	RT4018	2MΩ	RT4029

Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	$0.62	$0.43	$0.37

25 TURN CERMET (3296W)

These are 25 turn industrial quality sealed trimpots. Pins are in a row, with 2.5mm spacing. Adjustment is vertical. Power rating is 0.5 watts.

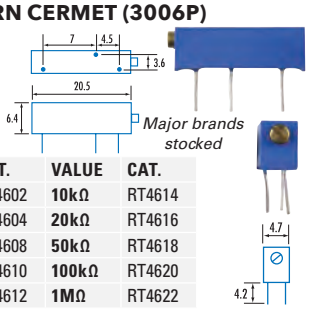


VALUE	CAT.	VALUE	CAT.
100Ω	RT4640	10kΩ	RT4650
500Ω	RT4642	20kΩ	RT4652
1kΩ	RT4644	50kΩ	RT4654
2kΩ	RT4646	100kΩ	RT4656
5kΩ	RT4648	1MΩ	RT4658

Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	$3.65	$2.55	$2.20

MULTITURN CERMET (3006P)

0.75 watts @ 70%. Horizontal side adjustment.
- 15-20 turns



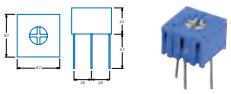
Major brands stocked

VALUE	CAT.	VALUE	CAT.
100Ω	RT4602	10kΩ	RT4614
500Ω	RT4604	20kΩ	RT4616
1kΩ	RT4608	50kΩ	RT4618
2kΩ	RT4610	100kΩ	RT4620
5kΩ	RT4612	1MΩ	RT4622

Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	$2.40	$1.70	$1.45

TRIMPOT CERMET 1 TURN 10KΩ (3386P)

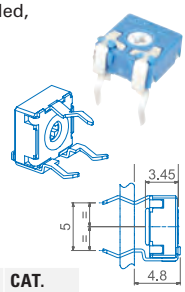
- Single turn
- 10kΩ
- 10% tolerance



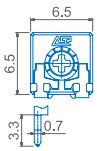
Cat.	Qty 1+	Qty 25+	Qty 100+
RT4600	$2.60	$1.80	$1.50

PIHER STYLE HORIZONTAL 5MM

A range of top quality sealed, standard sized trimpots.
- Dust proof enclosure
- Polyester substrate
- Wiper positioned at 50%
- Accidental rotor movement protected
- Max voltage 100V / Nom power 0.1W
- Linear curve, Tolerance ±30%
- End resistance 10Ω carbon type



VALUE	CAT.	VALUE	CAT.
200Ω	RT4350	20kΩ	RT4362
500Ω	RT4352	50kΩ	RT4364
1kΩ	RT4354	100kΩ	RT4366
2kΩ	RT4356	250kΩ	RT4368
5kΩ	RT4358	500kΩ	RT4370
10kΩ	RT4360	1MΩ	RT4372



Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	$1.65	$1.15	$1.00

Prototype Resistor Packs

0.25 WATT CARBON FILM RESISTORS
300 PIECES

This pack includes five of virtually each value from 1 Ω to 10 Meg. Sixty different values. All resistors are bandoleered for easy sorting.

Values supplied are:

1Ω, 1.5, 2.2, 3.3, 4.7, 5.6, 10, 12, 15, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 180, 220, 270, 330, 470, 560, 680, 820, 1k, 1k2, 1k5, 1k8, 2k2, 3k3, 3k9, 4k7, 5k6, 8k2, 10k, 12k, 15k, 18k, 22k, 27k, 33k, 39k, 47k, 56k, 68k, 82k, 100k, 120k, 150k, 220k, 270k, 330k, 470k, 1M, 2M7, 4M7 & 10M.

Cat.	Qty 1+	Qty 25+	Qty 100+
RR1680	$10.90	$7.60	$6.50

ULTIMATE RESISTOR PACK

Top quality, guaranteed 1/4 watt 5% miniature sized carbon film. In fact, they look like 1/8W, they are so small. This pack gives you almost every resistor in the E24 range (eg. 1.8K, 2.0K, 2.2K). You get 10 of every value, a total of 170 values, 1700 resistors in all and they are bandoleered for easy sorting. Buy this pack and you should NEVER be short of any resistor again. Massive savings over normal costs.

Cat.	Qty 1+	Qty 25+	Qty 100+
RR2000	$39.90	$27.90	$23.90

0.5W 1% MINI SIZE METAL FILM PACK

Pack includes five of each value from 10Ω to 1 Meg. Have that 1% resistor when you need it. Five of each of the following values supplied. 10Ω, 12, 15, 22, 27, 33, 39, 47, 56,68, 75, 82, 100, 120, 180, 220, 270, 330, 390, 470, 560, 680, 820, 910, 1k, 1k2, 1k8, 2k2, 3k3, 3k9, 4k7, 5k6, 6k8, 8k2, 10k, 12k, 15k, 18k, 22k, 27k, 33k, 39k, 47k, 56k, 68k, 82k, 91k, 100k, 120k, 150k, 180k, 200k, 220k, 270k, 330k, 390k, 470k, 560k, 750k & 1M. Total 60 values - 300 resistors. You know exactly what you are getting when you buy our resistor packs.

Cat.	Qty 1+	Qty 25+	Qty 100+
RR0680	$20.90	$14.60	$12.50

0.25 WATT CARBON FILM RESISTORS

This pack includes 10 of every value of 1/4W 5% carbon film resistors from 1Ω to 10MΩ. This is the E12 range, which goes like this - 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100. Total values supplied is 85, giving a total of 850 resistors. Resistors are bandoleered for easy sorting. A great way to never be out of that odd resistor & save a packet at the same time.

Cat.	Qty 1+	Qty 25+	Qty 100+
RR1697	$20.90	$14.60	$12.50

Light Dependent Resistors

LIGHT DEPENDENT RESISTOR (LDR)

Cadmium sulphide (CdS) light dependent resistor cell.

SPECIFICATIONS	RD3485
Dark Resistance	0.5MΩ min.
Light Resistance	2.8kΩ min/8.4kΩ max.
Max Dissipation	100mW
Rise Time	(0-63%) 50mS
Decay Time	(100 - 37%) 40mS
Dimensions	8.5mm x 10.14mm
Lead Spacing	7.68mm

Cat.	Qty 1+	Qty 25+	Qty 100+
RD3485	$4.00	$2.80	$2.40

LIGHT DEPENDENT RESISTOR (LDR)

Cadmium Sulphide (CdS) light dependent resistor cell. Similar to Philips ORP12.

SPECIFICATIONS	RD3480
Dark Resistance	min 10MΩ
Light Resistance	48k - 140kΩ
Max Dissipation	30mW
Rise Time	(0~63%) 40mS
Decay Time	(100~37%) 10mS
Dimensions	5.1mm x 4.3mm ±0.2
Lead Spacing	3.4mm

Cat.	Qty 1+	Qty 25+	Qty 100+
RD3480	$4.00	$2.80	$2.40

Open Air Resistors

WELWYN OPEN AIR RESISTOR OAR3-R010FI 0R010 3W 1%

A PCB mount current shunt/sense (resistor) up to about 20A. It is a very stable (extremely low temp drift), high tolerance (1%), low inductance (<10nH) shunt resistor that can be used in high current sense applications: motor current sense, regulated power supplies, power amplifier current sense, battery current sense. See website for datasheet. Sold individually

Cat.	Qty 1+	Qty 25+	Qty 100+
RR3420	$2.80	$1.95	$1.70

SPECIFICATIONS	RR3420
Power	3W
Resistance	0.01Ω
Tolerance	±1%
Dimensions	15.2(L) x 25.4(H)mm

product data

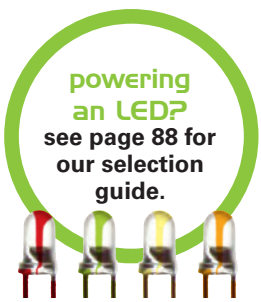
We have so much data and fact sheets we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

www.jaycar.co.nz

Resistors

	1% Metal A (1/2W)	5% Carbon B (1/4W)	5% Carbon C (1W)	5% W/wound D (5W)	5% W/wound E (10W)
0R0		RR1500			
0R1				RR3206	
0R22				RR3208	
0R47				RR3214	
0R75					
0R82					
1R0		RR1502	RR2502	RR3220	RR3340
1R2		RR1504	RR2504		
1R5		RR1506	RR2506	RR3230	
1R8		RR1508	RR2508	RR3232	
2R2		RR1510	RR2510	RR3234	RR3344
2R7		RR1512	RR2512	RR3236	
3R3		RR1514	RR2514	RR3238	RR3346
3R9		RR1516	RR2516	RR3240	RR3347
4R7		RR1518	RR2518	RR3242	RR3348
5R6		RR1520	RR2520	RR3244	RR3349
6R8		RR1522	RR2522	RR3246	RR3350
8R2		RR1524	RR2524	RR3248	RR3351
10R	RR0524		RR2526	RR3250	RR3352
11R	RR0525				
12R	RR0526		RR2528	RR3252	RR3353
13R	RR0527				
15R	RR0528		RR2530	RR3254	RR3354
16R	RR0529				
18R	RR0530		RR2532	RR3256	RR3355
20R	RR0531				
22R	RR0532		RR2534	RR3258	RR3356
24R	RR0533				
27R	RR0534		RR2536	RR3260	RR3357
30R	RR0535				
33R	RR0536		RR2538	RR3262	
36R	RR0537				
39R	RR0538		RR2540	RR3264	
43R	RR0539				
47R	RR0540		RR2542	RR3266	RR3360
51R	RR0541				
56R	RR0542		RR2544	RR3268	
62R	RR0543				
68R	RR0544		RR2546	RR3270	RR3362
75R	RR0545				
82R	RR0546		RR2548	RR3272	
91R	RR0547				
100R	RR0548		RR2550	RR3274	RR3364
110R	RR0549				
120R	RR0550		RR2552	RR3276	
130R	RR0551				
150R	RR0552		RR2554	RR3278	
160R	RR0553				
180R	RR0554		RR2556	RR3280	
200R	RR0555				
220R	RR0556		RR2558	RR3282	
240R	RR0557				
270R	RR0558		RR2760	RR3284	RR3369
300R	RR0559				
330R	RR0560		RR2762	RR3286	
360R	RR0561				
390R	RR0562		RR2764	RR3288	
430R	RR0563				
470R	RR0564		RR2766	RR3290	RR3372
510R	RR0565				
560R	RR0566		RR2768	RR3292	
620R	RR0567				
680R	RR0568		RR2770	RR3294	
750R	RR0569				
820R	RR0570		RR2772	RR3296	RR3375
910R	RR0571				
1K0	RR0572		RR2774	RR3298	
1K1	RR0573				
1K2	RR0574		RR2776		
1K3	RR0575				
1K5	RR0576		RR2778	RR3302	
1K6	RR0577				
1K8	RR0578		RR2780		
2K0	RR0579				
2K2	RR0580		RR2782	RR3306	
2K4	RR0581				
2K7	RR0582		RR2784		
3K0	RR0583				
3K3	RR0584		RR2786	RR3310	
3K6	RR0585				
3K9	RR0586		RR2788		
4K3	RR0587				
4K7	RR0588		RR2790	RR3312	

	1% Metal A (1/2W)	5% Carbon B (1/4W)	5% Carbon C (1W)
5K1	RR0589		
5K6	RR0590		RR2792
6K2	RR0591		
6K8	RR0592		RR2794
7K5	RR0593		
8K2	RR0594		RR2796
9K1	RR0595		
10K	RR0596		RR2798
11K	RR0597		
12K	RR0598		RR2800
13K	RR0599		
15K	RR0600		RR2802
16K	RR0601		
18K	RR0602		RR2804
20K	RR0603		
22K	RR0604		RR2806
24K	RR0605		
27K	RR0606		RR2808
30K	RR0607		
33K	RR0608		RR2810
36K	RR0609		
39K	RR0610		RR2812
43K	RR0611		
47K	RR0612		RR2814
51K	RR0613		
56K	RR0614		RR2816
62K	RR0615		
68K	RR0616		RR2818
75K	RR0617		
82K	RR0618		RR2820
91K	RR0619		
100K	RR0620		RR2822
110K	RR0621		
120K	RR0622		RR2824
130K	RR0623		
150K	RR0624		RR2826
160K	RR0625		
180K	RR0626		RR2828
200K	RR0627		
220K	RR0628		RR2830
240K	RR0629		
270K	RR0630		RR2832
300K	RR0631		
330K	RR0632		RR2834
360K	RR0633		
390K	RR0634		RR2836
430K	RR0635		
470K	RR0636		RR2838
510K	RR0637		
560K	RR0638		RR2840
620K	RR0639		
680K	RR0640		RR2842
750K	RR0641		
820K	RR0642		RR2844
910K	RR0643		
1M0	RR0644		RR2846
1M2		RR1650	RR2848
1M5		RR1652	RR2850
1M8		RR1654	
2M2		RR1656	RR2854
2M7		RR1658	
3M3		RR1660	RR2858
3M9		RR1662	RR2860
4M7		RR1664	RR2862
5M6		RR1666	RR2864
6M8		RR1668	
8M2		RR1670	RR2868
10M	RR0660	RR1672	RR2870



A: 0.5W 1% METAL FILM MINI SIZE

Same size as standard 1/4W Carbon Film.

	Qty 1+	Qty 25+	Qty 100+
Pkt 8	$0.70	$0.49	$0.42

B: 0.25W CARBON FILM

5%, available from 1Ω to 8.2Ω & 1.2MΩ to 10MΩ. Use Mini Metal Film for other values.

	Qty 1+	Qty 25+	Qty 100+
Pkt 8	$0.60	$0.42	$0.36

C: 1W CARBON FILM 5%

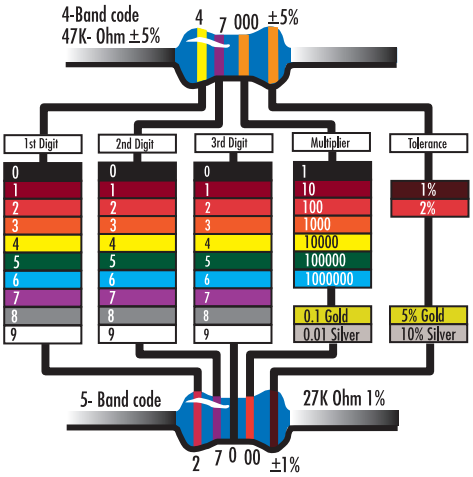
	Qty 1+	Qty 25+	Qty 100+
Pkt 2	$0.60	$0.42	$0.36

D: 5W WIREWOUND

	Qty 1+	Qty 25+	Qty 100+
Each	$0.60	$0.42	$0.36

E: 10W WIREWOUND

	Qty 1+	Qty 25+	Qty 100+
Each	$2.20	$1.55	$1.30



BUY A LOT OF RESISTORS?
Check out our economical pack deals on page 110

Component Lead Forming Tool

COMPONENT LEAD FORMING TOOL

Get the hole spacing for your resistors and diodes perfect every time. This handy forming tool provides uniform hole spacing from 10 to 38mm. Suitable for production assembly, education and training. The tool is double sided with one side for use with DO47 outline diodes (e.g. 1N914) and 1W Zener diodes; the other side being suitable for 1/4W resistors, DO41 outline diodes (e.g. 1N4004).

- Made in USA from engineering plastic
- Dimensions: 138(L)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1810	$10.90	$9.80	$8.70

electromechanical & enclosures

electromechanical:

Buzzers	145
Circuit Protection	126
Fans	112
Heatsinks	120
Mains Transformers	117
Relays	121
Switches	134

enclosures:

ABS Enclosures	147
Instrument Cases - ABS	146
Metal Enclosures	151
Metal Instrument Cases	150
Plastic Enclosures	150
Rack Systems	301

mechanical ventilation (fans):

Suitable for computers, office machinery, appliances, copying machines, power units, amplifiers, automatic vending machines, air conditioning, medical equipment etc.

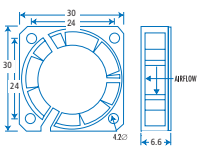
- Long life - 60,000 hours @ 25°C, 30,000 hours @ 40°C
- Ball bearing: 100,000 hours @ 25°C
- Can be mounted on suction or discharge side
- Wiring will not burn out even if rotating parts are restricted

Sirocco 1 YEAR WARRANTY — ON ALL OUR FANS

5V/12VDC fans:

- Housing / Impeller: Plastic GRP Filled
- Connections: Flylead

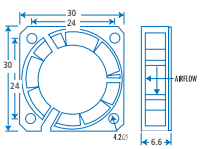
5VDC 30MM NARROW - 2 WIRE



SPECIFICATIONS	YX2500
Voltage (V)	5VDC
Current (mA)	120
Dimensions (mm)	30 x 30 x 6
Air Volume (m^3/min)	3.1
Air Volume (CFM)	108
Speed (RPM)	8000
Noise (dBA)	27
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
30mm	YX2500	$18.90	$16.90	$14.90

12VDC 30MM NARROW - 2 WIRE



SPECIFICATIONS	YX2501
Voltage (V)	12VDC
Current (mA)	100
Dimensions (mm)	30 x 30 x 6
Air Volume (m^3/min)	3.1
Air Volume (CFM)	108
Speed (RPM)	8000
Noise (dBA)	27
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
30mm	YX2501	$18.90	$16.90	$14.90

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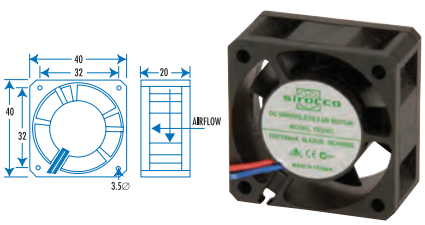
pick me Fans

	Size (mm)	Depth (mm)	Operating Volt	Bearing Type	Air Volume (CFM)	Speed (RPM)	Connection	Housing	Tacho	Page
	5VDC AXIAL FAN									
YX2500	30	6	5VDC	Ball	108	8,000	Flylead	Plastic	No	112
	12VDC AXIAL FANS									
YX2501	30	6	12VDC	Ball	108	8,000	Flylead	Plastic	No	112
YX2503	40	10	12VDC	Sleeve	5.4	6,000	Flylead	Plastic	No	113
YX2502	40	20	12VDC	Sleeve	7.6	7,000	Flylead	Plastic	No	113
XC5054	40	10	12VDC	Ball	5.4	6,000	Flylead & Plug	Plastic	Yes	113
YX2504	50	15	12VDC	Sleeve	16.6	5,500	Flylead	Plastic	No	114
XC5055	50	10	12VDC	Ball	11.6	5,500	Flylead & Plug	Plastic	Yes	114
YX2505	60	25.4	12VDC	Sleeve	20	4,000	Flylead	Plastic	No	114
YX2512	80	25.4	12VDC	Sleeve	34	3,000	Flylead	Plastic	No	114
YX2513	80	25.4	12VDC	Ball	34	3,000	Flylead	Plastic	No	114
YX2523	80	25.4	12VDC	Ball	42	3,100	Flylead	Plastic	No	114
YX2580*	80	25	12VDC	Magnetic	28.1	2,000	Flylead	Polycarbonate	No	115
YX2570*	80	25	12VDC	Ball	20.7	1,600	3 Pin Molex	Polycarbonate	No	115
YX2521	90	25	12VDC	Sleeve	59	3,000	Flylead	Plastic	No	114
YX2582*	92	25	12VDC	Magnetic	39.8	2,000	Flylead	Polycarbonate	No	115
YX2572*	92	25	12VDC	Ball	31.3	1,500	3 Pin Molex	Polycarbonate	No	115
YX2518	120	25.4	12VDC	Ball	88	3,000	Flylead	Plastic	No	114
YX2522	120	25	12VDC	Ball	88	3,000	Flylead	Plastic	No	114
YX2584*	120	25	12VDC	Magnetic	64.3	1,500	Flylead	Polycarbonate	No	115
YX2574*	120	25	12VDC	Ball	37	1,000	3 Pin Molex	Polycarbonate	No	115
	12VDC BLOWER FANS									
YX2532	97 x 94	33	12VDC	Ball	26	3,600	Flylead	Plastic	No	115
	24VDC AXIAL FAN									
YX2542	80	25.4	24VDC	Ball	40	3,200	Flylead	Plastic	No	115
	240VAC AXIAL FANS									
YX2509	80	25.4	240VAC	Sleeve	23	2,800	Flylead	Metal	No	116
YX2510	80	38	240VAC	Sleeve	30	2,800	Flylead	Metal	No	116
YX2508	80	38	240VAC	Ball	30	2,800	Flylead	Metal	No	116
YX2516	120	25.4	240VAC	Sleeve	80	2,350	Solder	Metal	No	116
YX2514	120	38	240VAC	Sleeve	105	3,000	Solder	Metal	No	116
YX2517	120	38	240VAC	Ball	105	3,000	Solder	Metal	No	116
YX2520	150	55	240VAC	Ball	230	3,400	Use PS4160	Metal	No	116

*Note: Fans with * on page 115 are not Sirocco brand and have specific technical data. Please refer to that page. All 240V rated fans work equally well on 230V mains.*

12VDC Fans

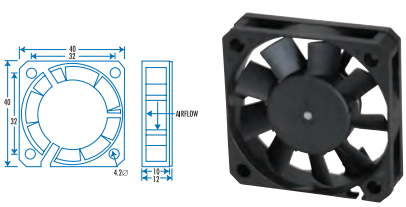
40MM - 2 WIRE



SPECIFICATIONS	YX2502
Voltage (V)	12VDC
Current (mA)	100
Dimensions (mm)	40 x 40 x 20
Air Volume (m³/min)	0.215
Air Volume (CFM)	7.6
Speed (RPM)	7000
Noise (dBA)	32
Bearing System	Sleeve

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
40mm	YX2502	$24.90	$22.30	$19.70

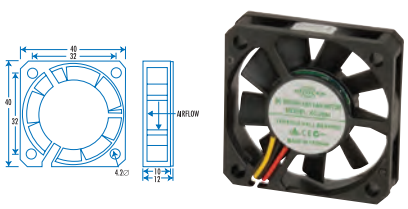
40MM NARROW - 2 WIRE



SPECIFICATIONS	YX2503
Voltage (V)	12VDC
Current (mA)	80
Dimensions (mm)	40 x 40 x 10
Air Volume (m³/min)	0.16
Air Volume (CFM)	5.4
Speed (RPM)	6000
Noise (dBA)	30
Bearing System	Sleeve

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
40mm	YX2503	$22.90	$20.30	$17.90

40MM BALL BEARING - 3 WIRE

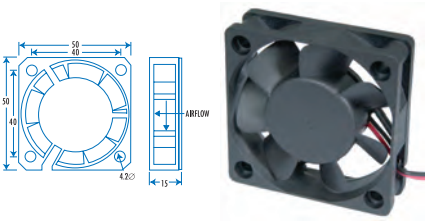


SPECIFICATIONS	XC5054
Voltage (V)	12VDC
Current (mA)	80
Dimensions (mm)	40 x 40 x 10
Air Volume (m³/min)	0.16
Air Volume (CFM)	5.4
Speed (RPM)	6000
Noise (dBA)	30
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
40mm	XC5054	$19.90	$17.90	$15.90

12VDC Fans CONTINUED

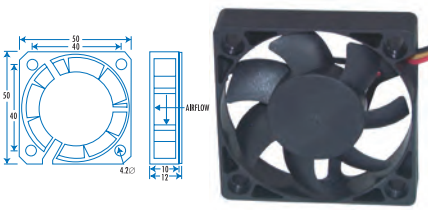
50MM NARROW - 2 WIRE



SPECIFICATIONS	YX2504
Voltage (V)	12VDC
Current (mA)	190
Dimensions (mm)	50 x 50 x 15
Air Volume (m³/min)	0.7
Air Volume (CFM)	16.6
Speed (RPM)	5500
Noise (dBA)	33
Bearing System	Sleeve

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
50mm	YX2504	$22.90	$20.30	$17.90

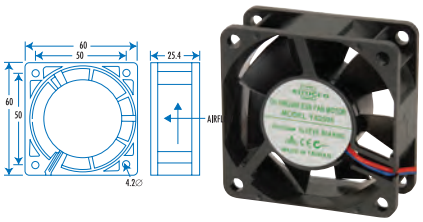
50MM BALL BEARING - 3 WIRE



SPECIFICATIONS	XC5055
Voltage (V)	12VDC
Current (mA)	130
Dimensions (mm)	50 x 50 x 10
Air Volume (m³/min)	0.33
Air Volume (CFM)	11.6
Speed (RPM)	5500
Noise (dBA)	31
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
50mm	XC5055	$19.90	$17.90	$15.90

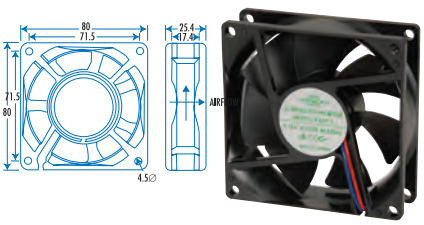
60MM - 2 WIRE



SPECIFICATIONS	YX2505
Voltage (V)	12VDC
Current (mA)	130
Dimensions (mm)	60 x 60 x 25.4
Air Volume (m³/min)	0.57
Air Volume (CFM)	20
Speed (RPM)	4000
Noise (dBA)	30
Bearing System	Sleeve

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
60mm	YX2505	$22.90	$20.30	$17.90

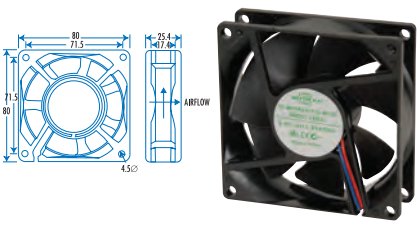
80MM - 2 WIRE



SPECIFICATIONS	YX2512
Voltage (V)	12VDC
Current (mA)	200
Dimensions (mm)	80 x 80 x 25.4
Air Volume (m³/min)	0.97
Air Volume (CFM)	34
Speed (RPM)	3000
Noise (dBA)	32
Bearing System	Sleeve

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2512	$22.90	$20.30	$17.90

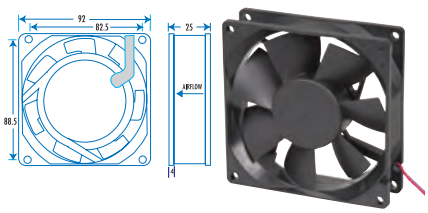
80MM BALL BEARING - 2 WIRE



SPECIFICATIONS	YX2513
Voltage (V)	12VDC
Current (mA)	200
Dimensions (mm)	80 x 80 x 25.4
Air Volume (m³/min)	0.97
Air Volume (CFM)	34
Speed (RPM)	3000
Noise (dBA)	32
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2513	$24.90	$22.30	$19.70

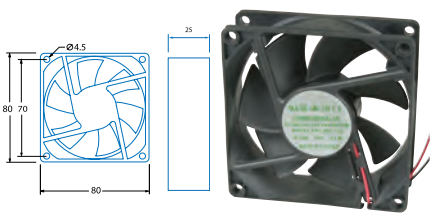
90MM - 2 WIRE



SPECIFICATIONS	YX2521
Voltage (V)	12VDC
Current (mA)	320
Dimensions (mm)	90 x 90 x 25
Air Volume (m³/min)	1.67
Air Volume (CFM)	59
Speed (RPM)	3000
Noise (dBA)	36
Bearing System	Sleeve

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
90mm	YX2521	$24.90	$22.30	$19.70

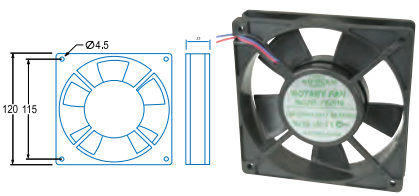
80MM BALL BEARING - IP55



SPECIFICATIONS	YX2523
Voltage (V)	12VDC
Current (mA)	200
Dimensions (mm)	80 x 80 x 25.4
Air Volume (m³/min)	1.2
Air Volume (CFM)	42
Speed (RPM)	3100
Noise (dBA)	35
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2523	$31.90	$28.90	$25.40

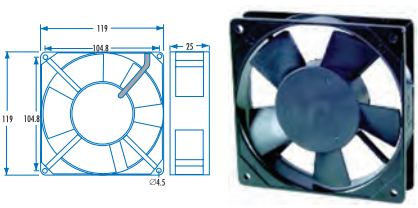
120MM BALL BEARING - IP55



SPECIFICATIONS	YX2522
Voltage (V)	12VDC
Current (mA)	380
Dimensions (mm)	120 x 120 x 25
Air Volume (m³/min)	3
Air Volume (CFM)	88
Speed (RPM)	3000
Noise (dBA)	42
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
120mm	YX2522	$45.90	$41.40	$36.90

120MM NARROW BALL BEARING - 2 WIRE



SPECIFICATIONS	YX2518
Voltage (V)	12VDC
Current (mA)	360
Dimensions (mm)	120 x 120 x 25.4
Air Volume (m³/min)	2.3
Air Volume (CFM)	88
Speed (RPM)	3000
Noise (dBA)	42
Bearing System	Ball Race

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
120mm	YX2518	$35.90	$32.40	$28.90

12VDC Maglev Fans

SUPER LONG-LIFE LOW-NOISE MAGLEV BEARING CASE FANS

5 YEAR WARRANTY

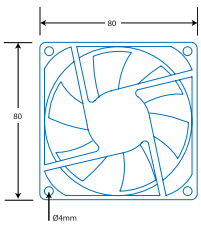
Featuring a patented Nanoflux bearing that incorporates magnetic levitation (maglev) technology and precise manufacturing, these premium quality fans ensure an extremely long operational life of 100,000hrs at 40°C (even longer at 25°C). Not only does the unique self-lubricating maglev bearing design offer extremely long life, but also extremely low noise levels compared to traditional fans ball bearings, and also offers the ability for the fan impeller to be removed for cleaning. The fan impeller itself has a winglet tip design and is UV reactive. Rubber fan mounts are also included to eliminate fan motor vibrations entering the case, further reducing noise levels. Dust/waterproof to IP54, these fans are sure to last even in harsh conditions.

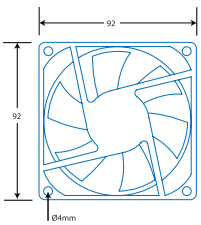
- Voltage: 12VDC (5VDC Starting Voltage)
- Black: Earth, Red: 12V+, Yellow: Tacho output (1 pulse/rev)
- Bearings: Nanoflux magnetic levitation
- Housing: Polycarbonate
- Implellers: UV reactive polycarbonate
- Connections: Flylead - 3 pin molex

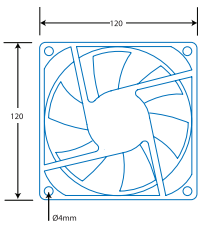
YX2580

YX2582

YX2584







SPECIFICATIONS	YX2580	YX2582	YX2584
Current (mA)	100	180	220
Dimensions (mm)	80 x 80 x 25	92 x 92 x 25	120 x 120 x 25
Air Volume (m^3/min)	0.8	1.13	1.82
Air Volume (CFM)	28.1	39.8	64.3
Speed (RPM)	2000	2000	1500
Noise (dBA)	21	22.5	25

SIZE	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2580	$34.90	$31.90	$27.90
90mm	YX2582	$39.90	$35.90	$31.90
120mm	YX2584	$43.90	$39.40	$34.90

12VDC Hydrodynamic Fans

SILENT HYDRODYNAMIC BEARING CASE FANS

1 YEAR WARRANTY

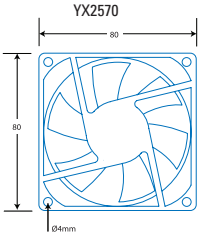
Designed to provide additional airflow without increasing noise levels these fans have precisely balanced blades and long-life hydro-dynamic bearing. Ultra-low noise making these fans perfect for a home theatre PC, or ventilating the amplifier wedged into your entertainment unit. To further improve silence, rubber fan mounts are included to eliminate fan motor vibrations inducing vibration noise.

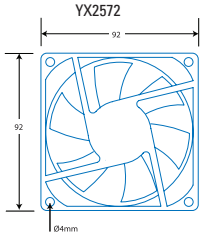
- Voltage: 12VDC
- Rated to last for 50,000 hours at 40°C (more at 25°C)
- Bearings: Ball (hydrodynamic)
- Housing / Impellers: Polycarbonate
- Connections: Flylead - 3 pin molex

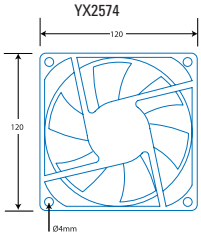
YX2570

YX2572

YX2574







SPECIFICATIONS	YX2570	YX2572	YX2574
Current (mA)	80	130	80
Dimensions (mm)	80 x 80 x 25	92 x 92 x 25	120 x 120 x 25
Air Volume (m^3/min)	0.59	0.89	1.05
Air Volume (CFM)	20.7	31.3	37
Speed (RPM)	1600	1500	1000
Noise (dBA)	18	20	20.2

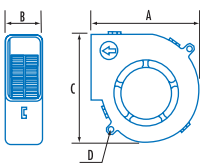
Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2570	$24.90	$22.30	$19.70
90mm	YX2572	$34.90	$31.90	$27.90
120mm	YX2574	$39.90	$35.90	$31.90

12VDC Blower Fan

97MM X 94MM BLOWER FAN BALL BEARING - 2 WIRE

Ideal for applications where space is limited but high air volume is required.

A=97mm
B=33mm
C=94mm



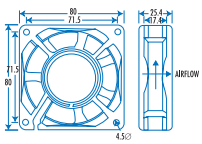
SPECIFICATIONS	YX2532
Voltage (V)	12VDC
Current (mA)	860
Dimensions (mm)	97 x 94 x 33
Air Volume (m^3/min)	0.74
Air Volume (CFM)	26
Speed (RPM)	3600
Noise (dBA)	51
Bearing	Ball Race
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

Voltage	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
12VDC	97x94mm	YX2532	$36.90	$33.20	$29.50

24V Fans

80MM NARROW BALL BEARING VERSION - 2 WIRE

Life expectancy 100,000 hours @ 25°C.



SPECIFICATIONS	YX2542
Voltage (V)	24VDC
Current (mA)	130
Dimensions (mm)	80 x 80 x 25.4
Air Volume (m^3/min)	1.1
Air Volume (CFM)	40
Speed (RPM)	3200
Noise (dBA)	35
Bearing	Ball Race
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead

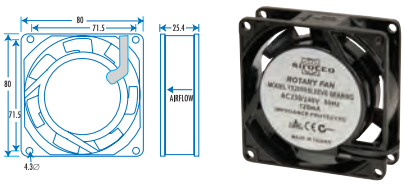
Voltage	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
24VDC	80mm	YX2542	$36.90	$33.20	$29.50

For next day delivery, or Click and Collect, see page 5

240VAC Fans

- Voltage (V): 240VAC
- Impeller: Plastic, fibreglass filled

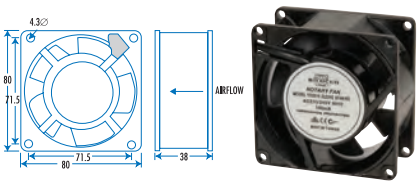
80MM NARROW - 2 WIRE



SPECIFICATIONS	YX2509
Current (mA)	120
Dimensions (mm)	80 x 80 x 25.4
Air Volume (m³/min)	0.67
Air Volume (CFM)	23
Speed (RPM)	2800
Noise (dBA)	33
Bearing	Sleeve
Housing - Diecast	Diecast zinc, aluminium
Connections	Flylead
Other	-

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2509	$36.90	$33.20	$29.50

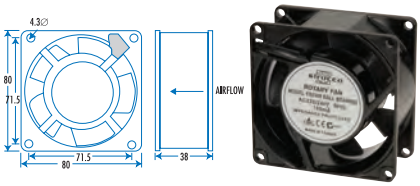
80MM STANDARD - 2 WIRE



SPECIFICATIONS	YX2510
Current (mA)	80
Dimensions (mm)	80 x 80 x 38
Air Volume (m³/min)	0.88
Air Volume (CFM)	30
Speed (RPM)	2800
Noise (dBA)	35
Bearing	Sleeve
Housing - Diecast	Aluminium, powdercoated
Connections	Flylead
Other	-

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2510	$36.90	$33.20	$29.50

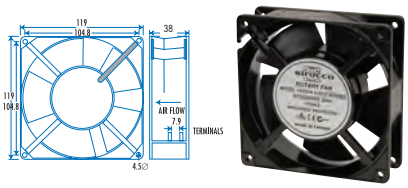
80MM BALL BEARING - 2 WIRE



SPECIFICATIONS	YX2508
Current (mA)	100
Dimensions (mm)	80 x 80 x 38
Air Volume (m³/min)	0.88
Air Volume (CFM)	30
Speed (RPM)	2800
Noise (dBA)	32
Bearing	Ball
Housing - Diecast	Aluminium, powdercoated
Connections	Flylead
Other	Life - 100,000 hrs@25°C

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2508	$45.90	$41.40	$36.90

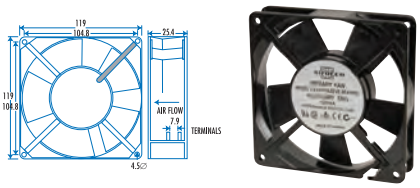
120MM - SOLDER LUGS



SPECIFICATIONS	YX2514
Current (mA)	125
Dimensions (mm)	120 x 120 x 38
Air Volume (m³/min)	3
Air Volume (CFM)	105
Speed (RPM)	3000
Noise (dBA)	47
Bearing	Sleeve
Connections	Solder Lugs
Other	Life - 100,000 hrs@25°C

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
120mm	YX2514	$35.90	$32.40	$28.90

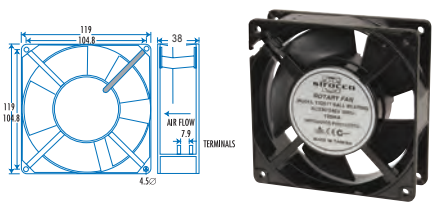
120MM NARROW - SOLDER LUGS



SPECIFICATIONS	YX2516
Current (mA)	120
Dimensions (mm)	120 x 120 x 25.4
Air Volume (m³/min)	2.3
Air Volume (CFM)	80
Speed (RPM)	2350
Noise (dBA)	44
Bearing	Sleeve
Connections	Solder Lugs
Other	Life - 100,000 hrs@25°C

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
120mm	YX2516	$36.90	$33.20	$29.50

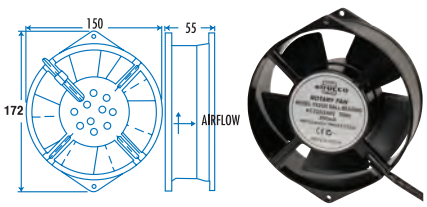
120MM BALL BEARING - SOLDER LUGS



SPECIFICATIONS	YX2517
Current (mA)	125
Dimensions (mm)	120 x 120 x 38
Air Volume (m³/min)	3
Air Volume (CFM)	105
Speed (RPM)	3000
Noise (dBA)	47
Bearing	Ball Race
Connections	Solder lugs
Other	Life - 100,000 hrs@25°C

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
120mm	YX2517	$45.90	$41.40	$36.90

150MM BALL BEARING - 2 WIRE

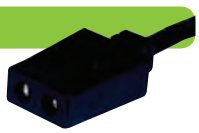


SPECIFICATIONS	YX2520
Current (mA)	290
Dimensions (mm)	150 x 172 x 55
Air Volume (m³/min)	6.57
Air Volume (CFM)	230
Speed (RPM)	3400
Noise (dBA)	53
Bearing	Ball Race
Connections	Flylead
Other	Life - 100,000 hrs@25°C

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	YX2520	$106.00	$95.50	$84.90

Fan Accessories

FAN POWER LEAD



- Suits YX2514, YX2516 & YX2517

Use with our 240VAC fans with two lugs for power connection. Moulded plug to suit fan one end, and bare wires at the other.

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.2m	PS4160	$4.90	$4.10	$3.70

PLASTIC FAN GUARD / FILTER KITS

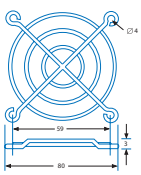
Foam filter prevents dust particles entering the fan. Rated to UL 94V-0.

- We recommend periodic cleaning of the foam filter to prevent clogging and restricting air flow
- Available in 3 sizes

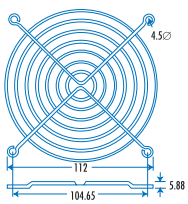
WIDTH	Cat.	Qty 1+	Qty 4+	Qty 10+
60mm	YX2550	$8.90	$7.90	$6.90
80mm	YX2552	$8.90	$7.90	$6.90
120mm	YX2554	$9.90	$8.50	$7.50

FAN FINGER GUARDS

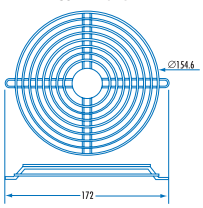
80mm Fans



120mm Fans



150mm Fans



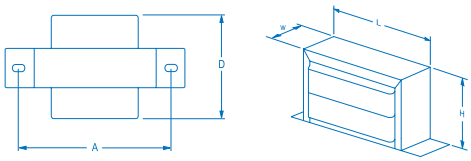
WIDTH	Cat.	Qty 1+	Qty 4+	Qty 10+
80mm	YX2511	$4.90	$4.10	$3.70
120mm	YX2515	$5.90	$5.20	$4.70
150mm	YX2525	$10.90	$9.50	$8.50

pick me

Quick Reference Transformer Selection

Magnetic core technology for mains transformers has been stable for many years. This is not to say that manufacturing technology has not improved. Our range of transformers may be stable, but that does not mean that our products don't change. We are constantly refining these transformers. We have two major categories Power EI Core and Power Toroidals. This table gives an overview with key technical specifications for easy reference and selection.

- Primary Voltage (V): 240VAC
- Primary internal thermal fuse protection
- Conforms to AS/NZ 61558.2.6



POWER EI CORE

			SECONDARY				CONNECTION		Dimensions (mm)						
	Type	VA	Voltage (V)	Current (A)	Winding	Regulation (%)	Primary	Secondary	a	d	l	w	h	(Kg)	Page
MM2017	2840	1.35	9, 4.5	150mA	Centre Tapped	9	Fly Leads	Fly Leads	45	32	37	16	32	0.120	117
MM2018	2854	3.6	24, 12	150mA	Centre Tapped	12	Fly Leads	Fly Leads	53	41	43	22	36	0.230	117
MM2006	2851	1.9	12.6, 6.3	150mA	Centre Tapped	8	Fly Leads	Fly Leads	46	32	37	16	32	0.112	117
MM2007	2855	4.5	30, 15	150mA	Centre Tapped	8	Fly Leads	Fly Leads	53	44	43	28	36	0.280	118
MM2013	2853	7	12.6, 6.3	500mA	Centre Tapped	10	Fly Leads	Fly Leads	61	38	51	20	43	0.310	118
MM2002	2155	15	15, 12.6, 9.5, 8.5, 7.5, 6.3	1A	Multi-Tapped	10	Fly Leads	Solder Lugs	72	52	59	32	51	0.665	118
MM2008	6672	30	30, 27.5, 24, 20, 17.5, 15	1A	Multi-Tapped	11	Fly Leads	Solder Lugs	85	62	69	35	59	0.924	118
MM2005	2165	60	30, 24, 21, 18, 15, 12, 9	2A	Multi-Tapped	8	Fly Leads	Solder Lugs	85	65	69	35	59	0.995	118
MM2011	2154	18	18, 15, 12	1A	Multi-Tapped	8	Fly Leads	Solder Lugs	72	56	59	32	51	0.650	118
MM2014	2167L	60	(12, 9) (x2)	2.5A (x2)	Multi-Tapped/Dual	10	Fly Leads	Solder Lugs	82	76	69	48	59	1.30	118
MM2004	2156	30	15, 12, 9, 6	2A	Multi-Tapped	10	Fly Leads	Solder Lugs	82	60	69	35	59	0.92	118
MM2012	2158	72	24	3A	Single	9	Fly Leads	Fly Leads	82	76	69	48	59	1.30	119
MM2015	2170	100	(15, 12) (x2)	3A (x2)	Multi-Tapped/Dual	7	Fly Leads	Solder Lugs	91	76	80	44	68	1.60	119

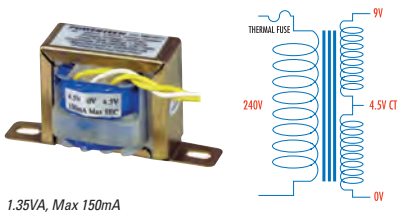
Note 1: All EI Core Transformer Fly Leads 200mm
Note 2: The dual winding models can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

POWER TORODIALS

		SECONDARY				CONNECTION		Dimensions (mm)				
	VA	Voltage (V)	Current (A)	Winding	Regulation (%)	Primary	Secondary	od	Id	h	(kg)	Page
MT2082	20	9 (x2)	1.11A (x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	119
MT2084	20	12 (x2)	0.83A (x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	119
MT2086	20	15 (x2)	0.66A (x2)	Dual	15	Fly Leads	Fly Leads	75	27	32	0.51	119
MT2112	160	12 (x2)	6.66A (x2)	Dual	10	Fly Leads	Fly Leads	110	34	44	1.80	119

Note 1: All Toroidal Transformer Fly Leads 150mm.
Note 2: The secondary windings can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

9V, 1.35VA, 150MA CENTRE TAPPED TYPE 2840

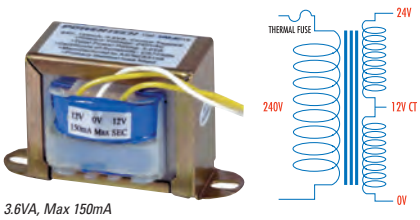


1.35VA, Max 150mA

SPECIFICATIONS	MM2017
Type	2840
Secondary winding (s)	Centre Tapped
Total VA rating	1.35VA
Secondary Voltages	9V, 4.5V (CT)
Secondary Current (max)	150mA
Magnetising Current	30mA
Temp rise above ambient at rated power	60°C
Regulation	9%
Weight	120g
Secondary Connection	200mm Fly leads
Dimensions (mm)	A45, D32, L37, W16, H32

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
9V	MM2017	$9.90	$8.50	$7.50

24V, 3.6VA, 150MA CENTRE TAPPED TYPE 2854

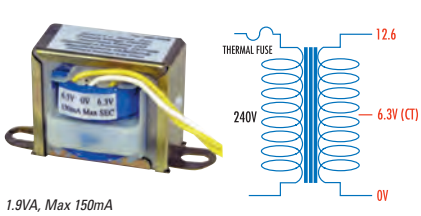


3.6VA, Max 150mA

SPECIFICATIONS	MM2018
Type	2854
Secondary winding (s)	Centre Tapped
Total VA rating	3.6VA
Secondary Voltages	24V, 12V (CT)
Secondary Current (max)	150mA
Magnetising Current	40mA
Temp rise above ambient at rated power	65°C
Regulation	12%
Weight	230g
Secondary Connection	200mm Fly leads
Dimensions (mm)	A53, D41, L43, W22, H36

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
24V	MM2018	$10.90	$9.50	$8.50

12.6V CT, 1.9VA, 150MA CENTRE TAPPED TYPE 2851



1.9VA, Max 150mA

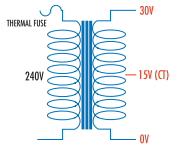
SPECIFICATIONS	MM2006
Type	2851
Secondary winding (s)	Centre Tapped
Total VA rating	1.9VA
Secondary Voltages	12.6V, 6.3V(CT)
Secondary Current (max)	150mA
Magnetising Current	15mA
Temp rise above ambient at rated power	40°C
Regulation	8%
Weight	112g
Secondary Connection	200mm Fly leads
Dimensions (mm)	A46, D32, L37, W16, H32

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
12.6V	MM2006	$9.90	$8.50	$7.50

For next day delivery, or Click and Collect, see page 5

Transformers CONTINUED

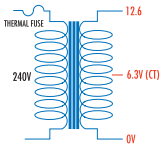
30V CT, 4.5VA, 150MA CENTRE TAPPED TYPE 2855



SPECIFICATIONS	MM2007
Type	2855
Secondary Winding(s)	Centre Tapped
Total VA Rating	4.5VA
Secondary Voltages	30V, 15V(CT)
Secondary Current (max)	150mA
Magnetising Current	40mA
Temp Rise Above Ambient At Rated Power	40°C
Regulation	8%
Weight	280g
Secondary Connection	200mm Fly leads
Dimensions (mm)	A53, D44, L43, W28, H36

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
30V	MM2007	$10.90	$9.50	$8.50

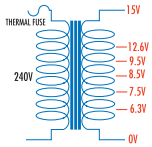
12.6V CT, 7VA, 500MA CENTRE TAPPED TYPE 2853



SPECIFICATIONS	MM2013
Type	2853
Secondary Winding(s)	Centre Tapped
Total VA Rating	7VA
Secondary Voltages	12.6V, 6.3V(CT)
Secondary Current (max)	500mA
Magnetising Current	40mA
Temp Rise Above Ambient At Rated Power	40°C
Regulation	10%
Weight	310g
Secondary Connection	200mm Fly leads
Dimensions (mm)	A61, D38, L51, W20, H43

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
12.6V	MM2013	$11.90	$10.70	$9.50

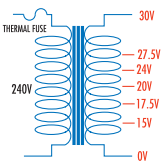
6.3 - 15V, 15VA, 1A MULTI-TAPPED TYPE 2155



SPECIFICATIONS	MM2002
Type	2155
Secondary Winding(s)	Multi-Tapped
Total VA Rating	15VA
Secondary Voltages	15V, 12.6V, 9.5V, 8.5V, 7.5V(CT), 6.3V(CT)
Secondary Current (max)	1A
Magnetising Current	30mA
Temp Rise Above Ambient At Rated Power	45°C
Regulation	10%
Weight	665g
Secondary Connection	Solder lugs
Dimensions (mm)	A72, D52, L59, W32, H51

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
6.3-15V	MM2002	$15.90	$14.30	$12.70

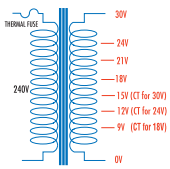
15 - 30V, 30VA, 1A MULTI-TAPPED TYPE 6672



SPECIFICATIONS	MM2008
Type	6672
Secondary Winding(s)	Multi-Tapped
Total VA Rating	30VA
Secondary Voltages	30V, 27.5V, 24V, 20V, 17.5V, 15V(CT)
Secondary Current (max)	1A
Magnetising Current	40mA
Temp Rise Above Ambient At Rated Power	60°C
Regulation	11%
Weight	924g
Secondary Connection	Solder lugs
Dimensions (mm)	A85, D62, L69, W35, H59

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
15-30V	MM2008	$22.90	$20.30	$17.90

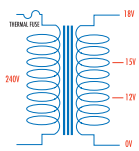
9 - 30V, 60VA, 2A MULTI-TAPPED TYPE 2165



SPECIFICATIONS	MM2005
Type	2165
Secondary Winding(s)	Multi-Tapped
Total VA Rating	60VA
Secondary Voltages	30V, 24V, 21V, 18V, 15V(CT), 12V(CT), 9V(CT)
Secondary Current (max)	2A
Magnetising Current	60mA
Temp Rise Above Ambient At Rated Power	60°C
Regulation	8%
Weight	955g
Secondary Connection	Solder lugs
Dimensions (mm)	A85, D65, L69, W35, H59

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
9-30V	MM2005	$33.90	$29.90	$26.90

12V - 18V, 18VA, 1A MULTI-TAPPED TYPE 2154

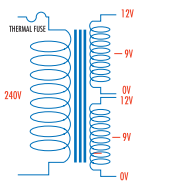


SPECIFICATIONS	MM2011
Type	2154
Secondary Winding(s)	Multi-Tapped
Total VA Rating	18VA
Secondary Voltages	18V, 15V, 12V
Secondary Current (max)	1A
Magnetising Current	40mA
Temp Rise Above Ambient At Rated Power	60°C
Regulation	8%
Weight	650g
Secondary Connection	Solder lugs
Dimensions (mm)	A72, D56, L59, W32, H51

VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
12-18V	MM2011	$15.90	$14.30	$12.70

9V - 24V, 60VA, 5A MULTI-TAPPED/DUAL TYPE 2167L

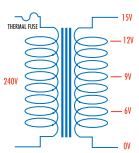
SPECIFICATIONS	MM2014
Type	2167L
Secondary Winding(s)	Multi-Tapped/ dual
Total VA Rating	60VA
Secondary Voltages	12V, 9V (x2)
Secondary Current (max)	2.5A (x2)
Magnetising Current	65mA
Temp Rise Above Ambient At Rated Power	65°C
Regulation	10%
Weight	1300g
Secondary Connection	Solder lugs
Dimensions (mm)	A82, D76, L69, W48, H59



VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
9-24V	MM2014	$33.90	$29.90	$26.90

6 - 15V, 30VA, 2A MULTI-TAPPED TYPE 2156

SPECIFICATIONS	MM2004
Type	2156
Secondary Winding(s)	Multi-Tapped
Total VA Rating	30VA
Secondary Voltages	15V, 12V, 9V, 6V(CT)
Secondary Current (max)	2A
Magnetising Current	60mA
Temp Rise Above Ambient At Rated Power	60°C
Regulation	10%
Weight	920g
Secondary Connection	Solder lugs
Dimensions (mm)	A82, D60, L69, W35, H59

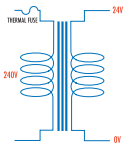


VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
6-15V	MM2004	$22.90	$20.30	$17.90

Transformers CONTINUED

24V, 72VA, 3A SINGLE WINDING TYPE 2158

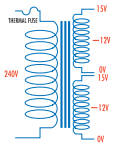
SPECIFICATIONS	MM2012
Type	2158
Secondary Winding(s)	Single
Total VA Rating	72VA
Secondary Voltages	24V
Secondary Current (max)	3A
Magnetising Current	60mA
Temp Rise Above Ambient At Rated Power	65°C
Regulation	10%
Weight	1300g
Secondary Connection	200mm Fly leads
Dimensions (mm)	A82, D76, L69, W48, H59



VOLTAGE	Cat.	Qty 1+	Qty 2+	Qty 4+
24V	MM2012	$33.90	$29.90	$26.90

12V - 30V, 100VA, 6A MULTI-TAPPED/DUAL TYPE 2170

SPECIFICATIONS	MM2015
Type	2170
Secondary Winding (s)	Multi-Tapped/ dual
Total VA Rating	100VA
Secondary Voltages	15V, 12V(x2)
Secondary Current (max)	3A (x2)
Magnetising Current	80mA
Temp Rise Above Ambient At Rated Power	70°C
Regulation	7%
Weight	1600g
Secondary Connection	Solder lugs
Dimensions (mm)	A91, D76, L80, W44, H68



Voltage	Cat.	Qty 1+	Qty 2+	Qty 4+
12-30V	MM2015	$36.90	$33.20	$29.50

Toroidals:

SOANAR

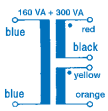
WHY A TOROID?

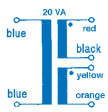
- Smaller size and weight to meet modern 'slimline' requirements
- Low electrically induced noise demanded by compact equipment
- High efficiency enabling conservative rating whilst maintaining size advantages
- Simple, quick, single bolt mounting

The Toroidal transformer is now accepted as the standard in the industry, quality made to ISO 9000 overtaking the obsolete laminated type. Industry has been quick to recognise the advantage toroidals offer in size, weight and lower radiated field. Current ratings on toroidal transformers. Can be used in 2 ways:

A) Both secondary windings in series - double the volts
B) Both secondary windings in parallel - double the amps.

Note: If connected in parallel, the windings must be connected in phase.





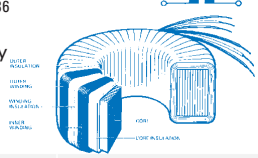
20VA LOW PROFILE: MT2082 / MT2084 / MT2086

- Dimensions: 75(O/D) x 27(I/D) x 32(H)mm

The height is only 32mm, which means they will fit into a 44mm rack case.

160VA TOROIDS: MT2112

- Dimensions: 110(O/D) x 34(I/D) x 44(H)mm



CAT.		SECONDARY SERIES	SECONDARY PARALLEL
MT2082	9+9V	1.11A	2.22A
MT2084	12+12V	0.833A	1.66A
MT2086	15+15V	0.666A	1.333A
MT2112	12+12V	6.66A	13.33A

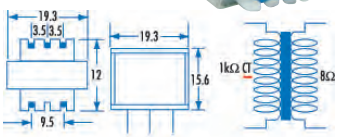
	Cat.	Qty 1+	Qty 2+	Qty 4+
9V 20VA	MT2082	$36.90	$33.20	$29.50
12V 20VA	MT2084	$29.90	$26.90	$23.90
15V 20VA	MT2086	$29.90	$26.90	$23.90
12V 160VA	MT2112	$65.90	$59.50	$52.90

Miniature Transformers

MINIATURE TRANSFORMER

STANDARD

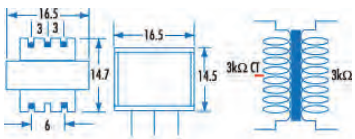
- Primary/secondary 1k Ω ct/8 Ω
- 350mW rating

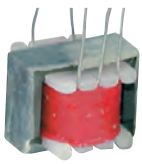


	Cat.	Qty 1+	Qty 2+	Qty 4+
Standard	MM2532	$5.90	$5.20	$4.70

MINIATURE COUPLING TRANSFORMER

- 3k Ω CT//3k
- Iron core





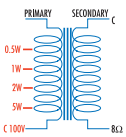
	Cat.	Qty 1+	Qty 2+	Qty 4+
Miniature	MM2534	$5.90	$5.20	$4.70

Speaker Transformer

5W LINE SPEAKER TRANSFORMER

Designed to tap 100V (or 70V 1/2 power) public address amplifier lines to use an 8Ω speaker. Made with grain oriented steel for good frequency response. Good dynamic range. Primary taps enable you to select power level for 8Ω speaker. Connect primary to C (100V) and tap for whatever sound level is required from 0.5-5WRMS. Supplied with terminal block mounted on top of transformer. Mounting hole centres 53mm.

PRIMARY	POWER
20k	0.5W
10k	1W
5k	2W
2.5k	5W



	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM1900	$13.90	$12.50	$11.10

Strobe Globe & Trigger

MINIATURE STROBE TRIGGER TRANSFORMER

Used to trigger small XENON discharge lamps.

- Can be used with SL2692 Strobe Tube
- Dimensions: 10(L) x 7(Ø)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	MM2520	$2.50	$2.10	$1.90

XENON REPLACEMENT GLOBE

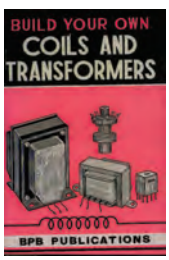
Suits common party strobe lights with a Xenon tube.
Can be used with MM2520 Trigger Transformer.

- Design power: 6W
- Max voltage: 550V
- Design voltage: 500V
- Min voltage: 200V
- Min trigger voltage: 210V
- Flash frequency: 0.4 - 4Hz
- Sec trigger voltage: 6kV
- Lifespan: Up to 3 million flashes
- Glass dimensions: 32(H) x 5(Dia.)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL2692	$6.90	$6.20	$5.50

BUILD YOUR OWN COILS AND TRANSFORMERS BOOK

This book is a wealth of information, ideal for hobbyist or anybody interested in winding their own transformers. After the introduction the book covers attributes of coils/transformers, mutual inductance, reactance, resonance, impedance, coil selectivity. It then goes on to the design aspects - discussing coils in tuning circuits, types of formers and cores, types of winding, self capacity, equations, coil design, design of IF transformers then output and power transformers. 55 pages 137 x 212mm.



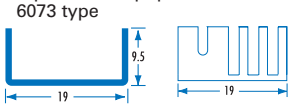
	Cat.	Qty 1+
	BM2440	$9.90

For next day delivery, or Click and Collect, see page 5

Heatsinks & Accessories

TO-220 MINI (6073B TYPE)

- Equivalent to popular 6073 type

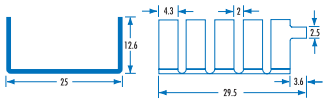


LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
20°C/W	HH8502	$1.10	$0.95	$0.85

TO-220 (6021 TYPE)

- Solderable PCB mounting pins

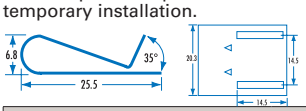


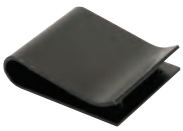
LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
12°C/W	HH8504	$1.90	$1.50	$1.30

TO-220 CLIP-ON (6043 TYPE)

The heatsink will just clip over a device when required for permanent or temporary installation.





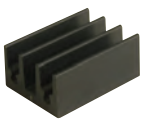
LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH8503	$1.50	$1.30	$1.20

TO-220

These PCB mount heatsinks have two 'screw flute' channels to aid in fastening to a board or surface.

- 16(W) x 21.8(D) x 10(H)mm



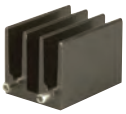
LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH8514	$2.50	$1.80	$1.60

TO-220

Same dimensions as our HH8514 only with longer fins. These PCB mount heatsinks have two tinned pins to aid in fastening the sink to a board or surface.

- 16(W) x 21.8(D) x 15.8(H)mm
- Pins 2mm dia. x 3mm long



LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
19°C/W	HH8516	$1.90	$1.70	$1.50

PC MOUNT TO-3P

Will accept up to TO-3P size flat pack transistors. (This includes TO-220). Includes 2 PC pins, which help stabilise the heatsink and allow you to solder to PCB pads.

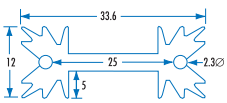
25MM HIGH (6098 TYPE)

- Size 33.6(W) x 12(D) x 25(H)mm
  Cat. HH8520

40MM HIGH (6099 TYPE)

- Size 33.6(W) x 12(D) x 40(H)mm
  Cat. HH8522

LIFETIME GUARANTEE

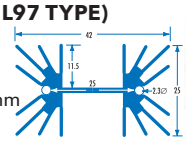


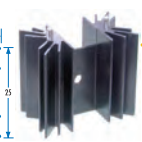
Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
17°C/W	HH8520	$1.90	$1.70	$1.50
11°C/W	HH8522	$3.50	$2.70	$2.40

HEAVY DUTY TO-3P (ML97 TYPE)

Heavy duty version of the heatsinks described above.

- Solderable screw studs
- Size 42(W) x 25(D) x 38(H)mm



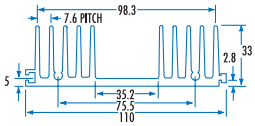


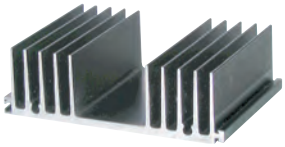
LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
7.5°C/W	HH8526	$3.50	$3.00	$2.70

VERSATILE HEAVY DUTY

- Allows horizontal & vertical mounting
- Length 72mm
- Undrilled





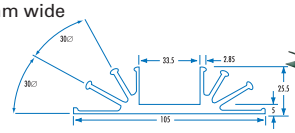
LIFETIME GUARANTEE

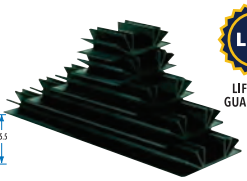
Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
2.2°C/W	HH8566	$18.90	$17.00	$15.00

HIGH EFFICIENCY FAN TYPE

Available in various lengths.

- 105mm wide





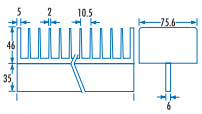
LIFETIME GUARANTEE

Length	Thermal resist.	Cat.	Qty 1+	Qty 4+	Qty 10+
55mm	2.5°C/W	HH8570	$7.90	$7.20	$6.50
72mm	2.2°C/W	HH8572	$11.90	$10.90	$9.50
135mm	1.1°C/W	HH8573	$15.90	$14.30	$12.70

DIECAST

- Dimensions: 150(L) x 75(H) x 46(D)mm

MADE IN



LIFETIME GUARANTEE

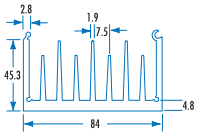
	Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
No Bracket	1.2°C/W	HH8555	$24.90	$22.40	$19.90

FAN ASSISTED-TYPE HEATSINK

This heatsink is designed to mate with itself to form a tunnel. The heatsink extrusion has a screw flute centre to enable 4 x No.6 self-tapping screws to fasten an 80mm standard type fan on one (or both) end/s to drive air through the heatsink assembly. It is ideal for high power amplifiers and power supplies. The entire assembly, including fan/s can still fit inside a 2 x Rackunit (88mm) enclosure. The heatsink also features ribbed fins for extra surface area, a 4mm thick base to enable thread tapping and small vee grooves on 5mm centres to facilitate mounting hole location. The centre groove, for example, is directly below the middle fin.

- Two standard lengths are available, black anodised

LIFETIME GUARANTEE



Suitable fans are YX2512 (12VDC) or YX2510 (240VAC). *Note: Two heatsinks pictured.*

THERMAL CHARACTERISTICS		
Assembly Type	Cooling Mode	Rating (approx)
Single Length	Convection	0.83°C/W
Tunnel Assembly	Convection	0.70°C/W
Tunnel Assembly	Fan Assisted (single)	0.35°C/W
Tunnel Assembly	Fan Assisted (dual)	0.30°C/W

MADE IN

Length (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
225	HH8530	$31.90	$28.70	$25.50
254	HH8532	$34.90	$31.40	$27.90

HEATSINK PIN GRID ARRAY WITH ADHESIVE THERMAL TRANSFER TAPE

This heatsink makes a perfect partner to Star LED modules. It doesn't get quicker or easier than this! Just peel the backing from the pre-mounted thermal transfer tape, press the Star LED (or whatever device) to the heatsink and SHAZAM!! It's ready to go! Don't be fooled by the compact size. The "pin grid array" design provides excellent low thermal resistance and heat dissipation. Sold individually.

- Dimensions: 21(L) x 21(W) x 6.2(H)mm

LIFETIME GUARANTEE

Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
5.9°C/W	HH8580	$4.10	$3.60	$3.10

Heatsinks & Accessories CONTINUED

TRANSISTOR CLAMPS

To clamp (TO-220) devices to a heatsink. Fasten down with a #6 self tapper or a 3mm machine screw & nut.

			Cat.	Qty 1+	Qty 10+	Qty 50+
Single	TO-220 Transistor Clamps	Pk 10	HH8600	$10.90	$9.80	$7.60
Single	TO-220 Transistor Clamps	Pk 100	HH8602	$31.90	$28.70	$22.30
Dual	TO-220 Transistor Clamps	Pk 100	HH8607	$24.90	$22.30	$17.30
Dual	TO-220 Transistor Clamp	ea	HH8610	$1.80	$1.60	$1.25

p.128 - high current fuses and fuse holders

25% SILVER HEATSINK COMPOUND - 1.5 GRAM TUBE

Contains 25% Silver for more efficient heat transfer. Ready to use syringe. Please note that Silver Heatsink Compound does conduct electricity and care should be taken when being used.

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5g Tube	NM2013	$7.90	$7.20	$6.50

HEATSINK COMPOUND - 3G SYRINGE WITH APPLICATOR

Features Nano Diamond for high thermal conductivity. It is electrically insulated so that you can apply to all electronic components and IC's and protects from short circuits.

- Instant conductivity
- Complete insulation
- Thermal conductivity: >3.8W/m-K
- Thermal resistance: <0.087°C-in 2/W
- Specific resistance: >2.4
- Operating temperature: -50°C-240°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
3g Tube	NM2018	$10.90	$9.70	$8.90

HEATSINK COMPOUND - ADHESIVE

Non electrically conductive.One 5 gram tube will adhere up to 16TO-3 package transistors.

	Cat.	Qty 1+	Qty 4+	Qty 10+
5g Tube	NM2014	$9.90	$8.50	$7.50

HEATSINK COMPOUND

Heat conducting paste facilitates heat transfer from semiconductors to heatsinks. One 10g tube will do up to 30 TO-3 package transistors.

- Non electrically conductive

	Cat.	Qty 1+	Qty 4+	Qty 10+
10g Tube	NM2010	$4.90	$4.30	$3.90
50g Syringe	NM2011	$12.90	$11.30	$10.30
150g Tube	NM2012	$24.90	$22.30	$19.70

THERMAL TRANSFER TAPE 100 X 100 X 0.5MM - PKT 2

When it comes to attaching devices like star LED modules to heatsinks, it's often not easy because they don't have screw 'eyes' like a TO220 transistor package. Using this thermal transfer tape, it's a breeze. The material is self adhesive and provides good thermal conductivity making it easy for chipsets, LED modules, memory modules etc. 2pcs of 100mm x 100mm sheets supplied. Just cut to size. 0.5mm thickness.

SPECIFICATIONS	NM2790
Thermal Conductivity	1.6 W/m-k
Flammability Level	UL94V-0
Working Temperature Range	-60 ~ +250°C
Insulation Strength	>7,000V/mm

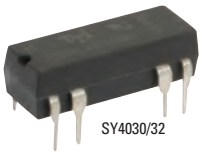
	Cat.	Qty 1+	Qty 4+	Qty 10+
	NM2790	$15.90	$13.70	$12.30

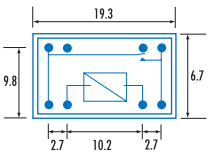
Relays PCB Mount

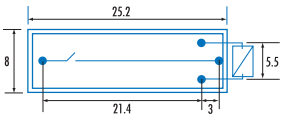
DUAL-IN-LINE REED STYLE RELAYS

ALLOWABLE VOLTAGE = 160%

They will fit into a 14 pin IC socket, are highly sensitive and can be driven by TTL, etc. Both are SPST normally open.







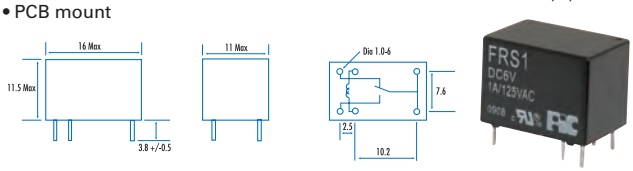
SPECIFICATIONS	SY4030	SY4032	SY4036	SY4038
Coil Resistance	500Ω	1000Ω	500Ω	1050Ω
Nominal Voltage	5V	12V	5V	12V
Rated Current	10mA	12mA	20mA	11.4mA
Pickup Voltage	3.75VDC	9.0VDC	3.5VDC	8.4VDC
Dropout Voltage	0.8VDC	1.0VDC	0.5VDC	1.2VDC
Power Consumption (W)	-	-	0.1	0.1
Contact Rating	0.5A	0.5A	1A	1A

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	10mA	SPST	SY4030	$5.90	$4.90	$4.40
12VDC	12mA	SPST	SY4032	$5.90	$4.90	$4.40
5VDC	20mA	SPST	SY4036	$4.90	$4.10	$3.70
12VDC	11.4mA	SPST	SY4038	$4.90	$4.10	$3.70

Standard Coil / Contact Relays

DIL TYPE - 6V 1A MINI

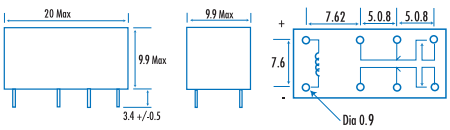
- Extra low profile. 6VDC bobbin
- 56 ohm coil resistance
- 1A / 125VAC
- PCB mount
- Contact rating: 1 Amp
- SPDT
- Dimensions: 15 x 11 x 11(H)mm

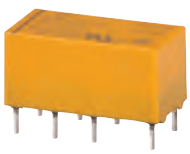


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC	1A	SPDT	SY4058	$9.90	$8.50	$7.50

DIL TYPE - 12V 5A MINI

- 12 volt DPDT relay
- 12VDC coil (polarised)
- Max switching power 60W
- Dimensions: 20 x 10 x 10(H)mm
- High sensitivity 200mW pickup power
- Coil resistance 720 ohm
- 125VA
- PCB mount





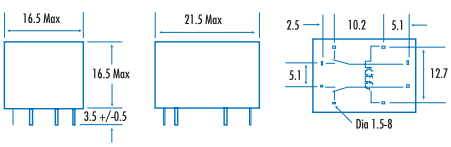
Note: Coil is polarised.

Product may vary from the one shown.

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY4059	$11.90	$10.70	$9.50

12V 1A DPDT

- Rated voltage - 12VDC
- Coil resistance - 400 ohm
- Dimensions: 21(W) x 16(D) x 15(H)mm
- Coil current - 30mA
- Contact rating: 1 Amp



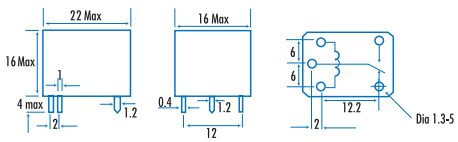
Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	1A	DPDT	SY4061	$7.30	$6.55	$5.80

For next day delivery, or Click and Collect, see page 5

Standard Coil / Contact Relays CONTINUED

12V 10A SPDT

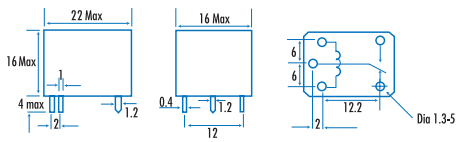
- Rated voltage - 12VDC
- Coil resistance - 400 ohm
- Power consumption: 360mW
- NO/NC contacts
- Coil current: 30mA
- Contact rating: 10 Amp
- Maximum switching current: 10A(AC) & 5A(DC)
- Dimensions: 18(W) x 15(D) x 14(H)mm



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY4066	$5.90	$5.30	$4.80

24V 10A SPDT

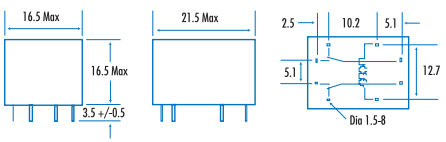
- Rated voltage: 24VDC
- Coil resistance: 1,600 ohm
- Power consumption: 360mW
- NO/NC contacts
- Coil current: 15mA
- Contact rating: 10A
- Max switching current: 10A(AC) & 5A(DC)
- Dimensions: 22(L) x 16(W) x 16(D)mm



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC	10A	SPDT	SY4067	$5.90	$5.30	$4.80

12V 5A DPDT

- Extra heavy duty mini relay
- Coil current - 30mA
- Contact rating - 5 Amp
- Dimensions: 21(W) x 16(D) x 15(H)mm
- Rated voltage 12VDC
- Coil resistance - 400 ohm
- Power consumption - 360mW
- NO/NC contacts

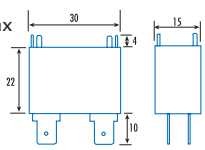


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY4062	$7.90	$7.20	$6.50

12V 20A SPST PCB MOUNT RELAY

PCB mounting 12V relay with QC lug terminals mounted conveniently on top of case. What a good idea!

- Coil voltage: 12VDC
- Coil resistance: 275 Ω
- Contact current: 20A@24VDC max
- Coil current: 44mA
- Contacts: SPST
- Dimensions: 30(L) x 22(W) x 15(H)mm

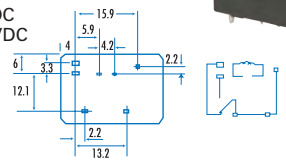


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	20A	SPST	SY4029	$10.90	$9.50	$8.50

12V 30A SPDT - STANDARD SIZE (HORN RELAY)

PCB version of standard 30A horn type relay. Whilst designed for auto horns, this relay is ideal for any high current application i.e. burglar alarms, ignition cutout, transmitters, car spotlights etc.

- Contact current (max) 40A
- Nominal coil voltage 12VDC
- Contact voltage (nom) 12VDC
- PC Pin termination



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPDT	SY4072	$8.90	$7.90	$6.90

12V 2A DPDT LATCHING

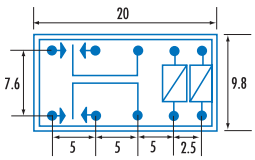
DIP style - will plug into 16 pin IC socket. Low profile. Highly sensitive - 180mW nominal power consumption.

Specifications Coil

- 2 coil latching - 12VDC
- Minimum set and reset power 180mW
- Nominal set and reset power 360mW

Specifications Contact

- Max switching power 60W, 125VA
- Max switching voltage 220VDC, 250VAC
- Max carrying current 2A @ 30VDC, 1A @ 120VAC
- Dimensions: 20(W) x 10(D) x 10(H)mm



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	2A	DPDT	SY4060	$15.90	$13.70	$12.30

SPECIAL PC MOUNT

Silver alloy contacts

- Telecoms grade

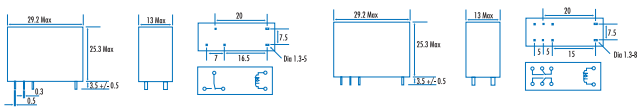
SPDT - 12/24VDC

- Coil 270 ohm - 12VDC - SY4050
- Coil 1100 ohm - 24VDC - SY4051
- 10A @ 30VDC or 10A @ 240VAC contact rating

DPDT - 12/24VDC

- Coil 270 ohm- 12VDC - SY4052
- Coil 1100 ohm- 24VDC - SY4053
- 2 x 5A @ 30VDC or 2 x 5A@240VAC contact rating
- Dimensions: 29(W) x 12(D) x 25(H)mm

SY4050



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY4050	$9.90	$8.50	$7.50
24VDC	10A	SPDT	SY4051	$11.90	$10.90	$9.50
12VDC	5A	DPDT	SY4052	$10.90	$9.50	$8.50
24VDC	5A	DPDT	SY4053	$11.90	$10.70	$9.50

tech talk — Converting To A Latching Relay

HOW TO TURN AN ORDINARY RELAY INTO LATCHING TYPE!

Sometimes you want to energise a relay to stay "on" instead of only momentarily staying on. For example you may want to make an electric motor, or a solenoid to stay on for some time.

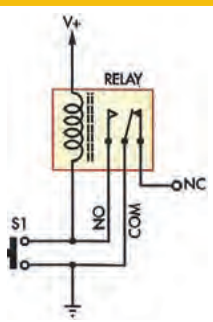
You can do this with the circuit shown.

The key to this is a momentary push button switch (there are many in this catalogue.)

Pressing the push button switch (S1) activates the relay and closes the N O (Normally Open) and COM (Common) contacts. These contacts form a parallel connection across S1. Even if S1 is now opened, the relay will
stay ON, or "latched."

To turn the relay off, you must interrupt power to the coil, in other words, switch V+ off, even momentarily. Even if you switch V+ on again, the relay will remain off, until you push S1 again.

Note: While the relay is energized, it will continue to draw coil current. True mechanical latching relays do not do this.



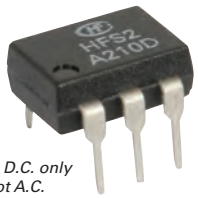
solid state relays:

Solid state relays are particularly useful when only low switching currents are available, such as those presented by CMOS or TTL circuits. Optically isolated for optimum safety, the relays feature high surge ratings to allow lamp and motor switching plus zero voltage turn-on and zero current turn off to minimise EMI and RFI emissions. Use this relay in conjunction with our remote control switches for safe 240VAC mains switching.

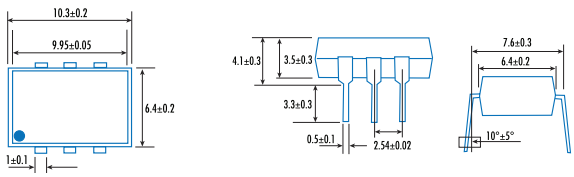
PCB MOUNT SOLID STATE DIL RELAY

Able to be triggered from low currents, and a super small package. Low on resistance and very low quiescent current.

SPECIFICATIONS	SY4090
Must Release Current	0.4mA
Must Operate Current	5mA
Maximum Load Voltage	60VDC
Maximum Load Current	150mA
Package	6 pin DIL



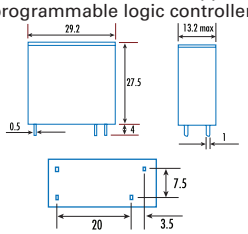
Note: D.C. only not A.C.



Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5V	500mA	SY4090	$6.90	$6.20	$5.50

PCB MOUNT SOLID STATE RELAYS, LOW CURRENT

Low profile PCB mounting solid state relays with LED input status indication. Suitable for applications such as I/O interfaces and programmable logic controllers.



SY4092

SY4093

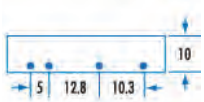
SPECIFICATIONS	SY4092	SY-4093
Control Voltage Range	4 - 6VDC	9.6 - 14.4VDC
Max. Input Current	20mA	20mA
Load Voltage	3 - 52.8VDC	3 - 50VDC
Load Current	0.01 - 2A	0.01 - 2A

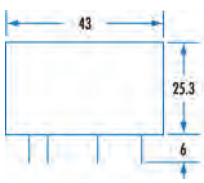
Will only switch off if DC power interrupted.

Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY4092	$8.90	$8.00	$7.10
12VDC	2A	SY4093	$8.90	$8.00	$7.10

MAINS TYPE

SPECIFICATIONS - OUTPUT	SY4080
Max Load Current	3A
Nominal Line Voltage	240VAC
Load Voltage Range	24-280VAC
Min. Blocking Voltage	600VAC
Max One-Cycle Surge Current	80A
Min. Load Current	50mA
AC Current	3A max
INPUT	
Control Voltage	3-32VDC
Control Current	15mA Max
Min. Turn Off Voltage	1VDC
Input Resistance	2.2kΩ min

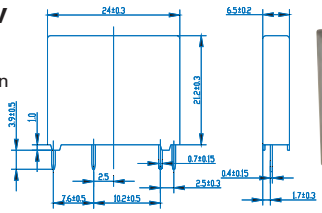




Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
3-32VDC	3A	SY4080	$24.90	$22.40	$19.90

SLIM 5V, 12V

- Ultra slim
- 2A switching
- Photo isolation
- 600V blocking voltage
- Sealed type



SY4088

SPECIFICATIONS	5VDC (SY4088)	12VDC (SY4089)
Dielectric Strength	20000VAC (1 minute)	20000VAC (1 minute)
Insulation Resistance	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Operating Temperature	-30°C to +80°C	-30°C to +80°C
INPUT RATINGS		
Control Voltage	4-6 VDC	9.6 - 14.4 VDC
Maximum Current	15mA	15mA
Voltage On	4V	4V
Current Off	1V	1V
OUTPUT RATINGS		
Voltage (AC Power)	50 - 250VAC	50 - 250VAC
Maximum Current	2A	2A
Surge Current	30A	30A

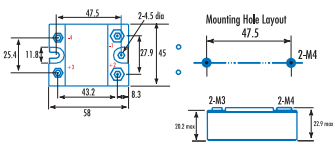
Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY4088	$8.90	$7.70	$6.70
12VDC	2A	SY4089	$8.90	$7.70	$6.70

CHASSIS MOUNT SOLID STATE RELAYS, HIGH CURRENT

Both look similar but are in fact quite different.

SY4084 40A, 240VAC TRIAC TYPE

This unit has a dielectrically isolated D.C. control input that controls a 40amp TRIAC. This means that you can control AC mains up to 40A RMS. It also means that it will not control D.C. For that you need the SY4086 below.



Specifications for SY4084

- Dielectric isolation rating 4000VAC
- Opto isolated control, 4V min, 32V max (D.C.)
- TRIAC controlled AC out. 48-280VAC
- Built-in snubber
- RoHS compliant

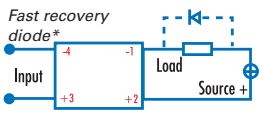
SY4086 100A, 0-30VDC MOSFET TYPE

This unit has a dielectrically isolated D.C. control input to switch a MOSFET which can control loads of up to 100A @ 30VDC. It will not switch AC. To switch AC use the SY4084. NB: Mechanical details same for both units. Advantages of SY4086. Switching high current D.C. was previously accomplished by high current contactors. Contactors quickly as they are plagued by arcing of the actual contacts. There is no arcing with MOSFETS and their very low ON-resistance (in this case 3.5 milli Ω) ensures little wasted energy.

SY4084

OUTPUT CIRCUIT	
Load Voltage	0-30VDC
Load Current	0.02-100A
Max On-State Resistance	0.0035Ω
Max On-State Voltage Drop	0.35V
Max Turn On Time	0.5ms
Max Turn Off Time	0.5ms
Max Surge Current	240A (10ms)
INPUT CIRCUIT	
Control Voltage	3-32VDC
Control Current	28mA max.
Min Turn Off Voltage	1.0VDC

*Fast recovery diode**



DC Output Solid State Relay Schematic.

**The diode is required to prevent back EMF problems with inductive loads. The diode should be a fast recovery type with a PIV rating greater the VDC Power Supply.*

HEATSINK TO SUIT SY4084/SY4086

Using this heat sink with the SY4084/SY4086 solid state relays assures you reach the full current capacity. Solid state relays become quite hot when used in a high current application is essential. Datasheet available on our website.

- Thermal resistance - 1.1°C/W
- Dimensions - 118(W) x 110(L) x 64 (H)mm

SY4085

Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC (ONLY)	40A	SY4084	$56.90	$50.90	$44.90
30VDC	100A	SY4086	$56.90	$50.90	$44.90
		Cat.	Qty 1+	Qty 10+	Qty 25+
Heatsink to suit		SY4085	$24.90	$22.40	$19.90

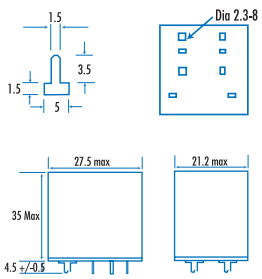
For next day delivery, or Click and Collect, see page 5

Cradle Relays

CRADLE RELAY - DPDT

PCB or DIN mount relays. Available in 12V or 24V configuration.

- Relay 24VDC 10A
- Coil current: 58mA
- Contact resistance: 50 milliohms
- Must operate voltage: 19.2VDC
- Coil resistance: 650Ω (SY4007) 160Ω(SY4008)
- Rated coil voltage: 24VDC
- Contact rating: 10A (resistive load)
- Operate time: 25ms max
- Operational life: 20 million cycles
- Suitable base: SY4064

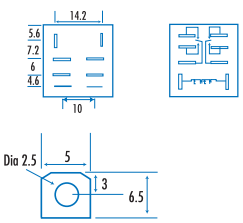


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	DPDT	SY4008	$9.90	$8.50	$7.50
24VDC	10A	DPDT	SY4007	$9.90	$8.50	$7.50

CRADLE RELAY - DPDT

For heavy current switching for mains appliances eg. high power speakers.

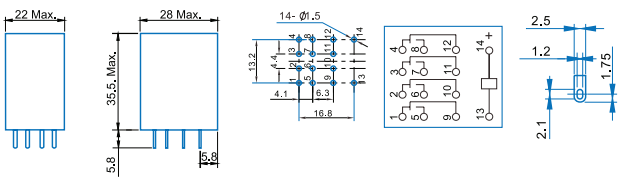
- Contact rated at 10A 240VAC
- Coil 12VDC 160 ohms
- Suitable base: Use SY4064 cradle
- NO/NC contacts
- DPDT contacts
- Dimensions: 27(W) x 20(D) x 35(H)mm



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	DPDT	SY4065	$9.90	$8.50	$7.50

CRADLE RELAY - 4PDT

- Rated Voltage: 12VDC
- Coil Resistance: 180Ω
- Contact Rating: 5A NO/NC contacts
- 27(W) x 21(D) x 35(H)mm excl pins
- Suitable base: SY4004



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	4PDT	SY4009	$11.90	$10.70	$9.50

James Greensill likes to

think. possible.

"My idea is that the Oculus rift will develop touch and suits and will allow compatibility with the new multi directional treadmill and they will develop games based on all the above"."

DIN RAIL MOUNT RELAY SOCKET

DIN rail mounting base for SY4009. Also has 4mm holes so can be screw mounted to a chassis.

- Dimensions: 71(L) x 29(W) x 30(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits SY4009	SY4004	$7.90	$7.10	$6.30

CRADLE RELAY BASE

Quality DIN rail mount with screw terminals.

- Suits SY4065
- Dimensions: 72(W) x 29(D) x 30(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits SY4065	SY4064	$7.30	$6.50	$5.80

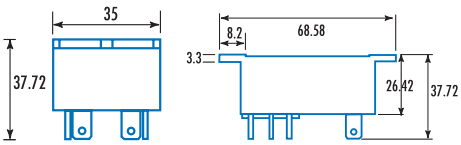
panel/chassis mount relays:

All feature rugged construction and quick connect terminals for easy installation.

24VDC OR 240VAC, DPDT, 30A

Two models available. One with a nominal 240VAC coil and one with 24VDC coil.

- Contact Form: DPDT
- Contact Rating: 30A NO / 3A NC
- 24V Model Coil Resistance: 350 ohm
- 240V Model Coil Resistance: 3800 ohm @50Hz

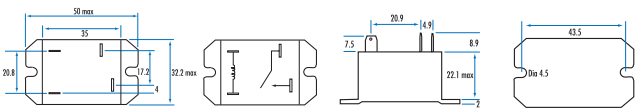


Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC	30A	DPDT	SY4041	$29.90	$27.00	$23.70
240VAC	30A	DPDT	SY4044	$34.90	$31.90	$27.90

12VDC, SPST 30A

- Contact Rating: 30A/240V
- QC tab termination - 4.8mm coil, 6.4mm contacts
- Used in heavy duty applications like air conditioning, heating etc
- Coil: 12V, 120 ohm

See website for full specifications.



Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY4040	$9.90	$8.90	$7.90

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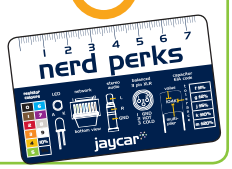
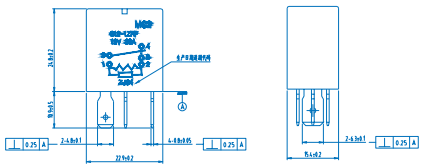


Automotive Relays

MICRO 30A HORN RELAYS

Extremely compact with a footprint of only 22 x 15mm, but maintaining high contact currents for automotive applications. Ideal for air horns, fog lamps or driving light installations. 30A rating on NO contacts, 20A on NC for both 12V and 24V types.



SY4045

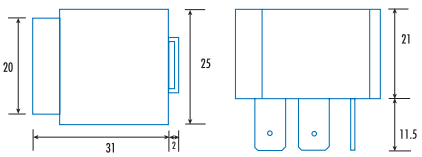
Not just for horns of course.

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY4045	$7.90	$6.90	$5.90
12VDC	30A	SPDT	SY4046	$7.90	$6.90	$5.90
24VDC	30A	SPDT	SY4047	$7.90	$6.90	$5.90

AUTOMOTIVE FUSED RELAYS - 15/30A

Designed for automotive applications, these quality relays have an integrated blade fuse (fuse included) and metal mounting bracket. SY4076 - 15A, ideal for aftermarket horns etc. SY4077 - 30A, suits high current accessories like fog lights, driving lights etc.

- QC tab termination 6.8mm (PT4507)

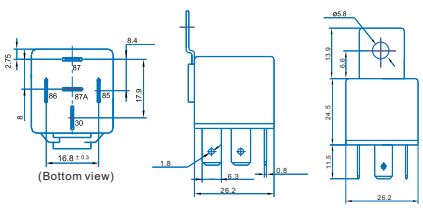


SY4076

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	15A	SPST	SY4076	$10.90	$9.50	$8.50
12VDC	30A	SPST	SY4077	$11.90	$10.70	$9.50

AUTOMOTIVE HORN RELAY - 30A

Whilst designed for auto horns, this relay is ideal for any high current application. i.e. alarms, ignition cutout, transmitters, car spotlights etc. Contact voltage (nom) 12VDC. Nominal coil voltage 12VDC. QC tab termination.



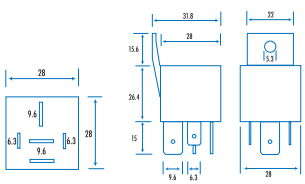
SY4068

p.122 - our PCB mount version Cat. SY4072

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY4068	$7.90	$7.20	$6.50
12VDC	30A	SPDT	SY4070	$7.90	$7.20	$6.50
Base to suit			SY4069	$5.90	$5.20	$4.70

AUTOMOTIVE HORN RELAY - 60A SPDT

- Contact voltage (nom) 12VDC
- Nominal coil voltage 12VDC
- QC tab termination
- SPDT
- Heavy duty quick connectors required for 60A terminals use PT4717 Pkt. 4



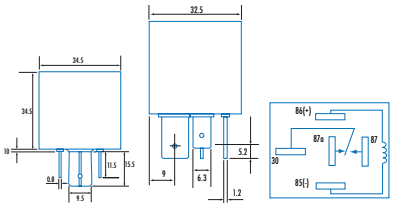
SY4074

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	60A	SPDT	SY4074	$10.90	$9.50	$8.50

AUTOMOTIVE RELAY - 150A SPDT

150A contacts for ultra high power applications such as multiple lights, high power audio etc, in a small package.

- Contacts: SPDT
- Contact rating: 150A
- Coil resistance: 50 Ω
- Operate time: 10ms
- Operational life: 100,000 cycles
- Contact resistance: 30m Ω max
- Coil voltage: 12VDC
- Rated coil current: 240mA
- Release time: 5ms



SY4073

Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	150A	SPDT	SY4073	$19.90	$17.90	$15.90

Relay Accessories

UNIVERSAL LED FLASHER RELAYS

Specifically designed to work with replacement low current LED indicator lights which may "hyper flash" when used with your cars standard flasher relay. This high frequency flashing will burn out the globe quicker. The minimum load is negligible (0.02A). Some cars will even display a burnt out bulb indicator even though it's working fine, this unit will remedy that issue.

- Nominal voltage: 12VDC
- Operating voltage: 11VDC-15VDC
- Flashing frequency: 90 times/minute +/-10%
- Silent operation
- Dimensions: 40(H) x 28(W) x 28(L)mm

UNIVERSAL 2-PIN LED FLASHER RELAY

Switch current: 0.02A-10A

SY4016

JAPANESE CAR 3-PIN LED FLASHER RELAY

Switch current: 0.02A-20A

SY4018

SY4018

L = Load
B = 12V in
E = Ground

SY4016

L = Load
B = 12V in

1 YEAR WARRANTY

type	current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Pin	10A	SY4016	$19.90	$17.70	$15.70
3 Pin	20A	SY4018	$19.90	$17.70	$15.70

AUTOMOTIVE RELAY BASE TO SUIT ABOVE HORN RELAYS

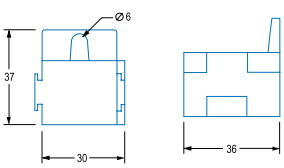
This is a plug in base with cable attached.

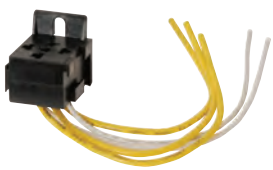
- Suits SY4068 & SY4070

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SY4069	$5.90	$5.20	$4.70

INTERLOCKING RELAY SOCKET WITH LEADS

The easy and neat way to add multiple relays to your electrical system. These relay bases interlock together, can be panel mounted and take standard 5 pin automotive relays. They also come with integral flying leads as well as bare crimp terminals for customised termination.





	Cat.	Qty 1+	Qty 10+	Qty 25+
150mm Long Leads	SY4078	$10.50	$8.90	$7.90

For next day delivery, or Click and Collect, see page 5

Remote Control Relays

MULTI CHANNEL REMOTE CONTROL RELAY BOARDS

Add remote control functions to a new project or existing installation with these handy remote control relay boards. Available with 2 or 4 channels, each output relay is controlled by a separate button on the key fob controller. Each channel can be set to momentary or latching mode allowing you to customise the setup to suit your application. Operating on the robust 433MHz band the key fob remotes work over distances up to 40m and feature rolling code transmitting for added security.

LR8855

- Selectable momentary or latching mode for each channel
- Transmission frequency: 433MHz
- Transmission range: 40m max
- Operating Voltage: 12VDC
- Relay contact rating: 28VDC 10A max / 250VAC 5A max

2 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 50mA
- Board dimensions: 85(L) x 61(W) x 20(H)mm
- Remote dimensions: 51(L) x 34(W) x 13(D)mm

Cat. LR8855

LR8856

SPARE 2 CHANNEL KEY FOB CONTROLLER

Cat. LR8856

4 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 80mA
- Board dimensions: 90(L) x 73(W) x 20(H)mm
- Remote dimensions: 63(L) x 40(W) x 13(D)mm

Cat. LR8857

LR8857

SPARE 4 CHANNEL KEY FOB CONTROLLER

Cat. LR8858

LR8858

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Channel RC Relay Board	LR8855	$59.90	$53.90	$47.90
2 Channel Keyfob	LR8856	$18.90	$16.90	$14.90
4 Channel RC Relay Board	LR8857	$79.90	$71.90	$63.90
4 Channel Keyfob	LR8858	$24.90	$22.40	$19.90

WIRELESS 4 CH RELAY RECEIVER (12V NOMINAL SEPARATION)

This unit, which can be operated with the 2 x remotes (supplied), will control up to 4 x relays in Normally Closed or Normally Open configuration as either Momentary or Latched operation (the relays are built-in to the receiver). The relay contacts are rated at 5A at 14VDC. If higher voltage or higher power (or both) switching is needed, simply get these relays to operate a higher power relay. Strictly speaking for simple control applications, the LR8824 is all you need.

SPECIFICATIONS	LR8824
Power Input	10 - 15VDC
Current Draw	350mA max
Standby Current	<10mA
Transmission Distance	30m typical (300m+ max line of sight)
Transmission Frequency	433.92MHz
Transmitter Features	SAW locked, rolling-code, water-resistant.
Learning Capacity	250 remotes per module.
Outputs	4 x NO/NC contacts individually selectable as momentary or latched
Relay Contacts	5A max at 14VDC
Receiver Dimensions	68(H) x 60(W) x 25(D)mm, Antenna 1 50mm long when deployed

ADDITIONAL WIRELESS RELAY TRANSMITTER UNIT

Capable of controlling the LR8824 with up to 4 control voltage inputs. You could, for example, have an input on channel 1, which would be from say a micro-switch connected to a window or a gate in a shed or barn. The LR- 8819 will transmit a signal (100m minimum, up to 400m line-of-sight) to the LR8824 to raise an alarm. It will also accept USB type voltage signals etc. It will accept positive or negative voltage commands (it will operate without the remote controls). Essential for fixed system monitoring.

- Unit measures 68(H) x 60(W) x 25(D)mm
- Antenna is 150mm long when deployed

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless 4 Channel Relay Receiver	LR8824	$119.00	$106.95	$94.95
Additional Wireless Relay Transmitter	LR8819	$49.90	$44.90	$39.90
Spare Remote to suit LR8824	LR8829	$29.90	$26.90	$23.70

Inline Fuse Holders

3AG

Plastic in-line type.

- As used on car radios, CB, etc
- Takes 3AG fuses
- Low volt DC only
- 5A max

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2015	$2.50	$1.80	$1.60

3AG MOISTUREPROOF FUSEHOLDER

Two rubber parts push together over the fuse to keep moisture out. Ideal for boats, cars etc.

- Cable needs to be soldered on, crimped to end parts.
- Could be made virtually waterproof with some silicone sealant
- Low volt DC only / 10A max

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2014	$3.00	$2.60	$2.30

3AG 20A HIGH CURRENT

If you want to fuse something higher than 5 amp you will need this holder.

- Super strong plastic holder
- Supplied with cable loop
- Simply cut and join to existing cables
- Low volt DC only

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2016	$4.50	$3.70	$3.30

5AG 60 AMP

For high-powered car sound systems.

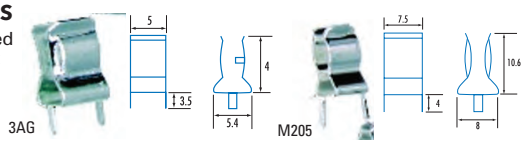
- Accepts 5AG fuse
- 80(L) x 19(D)mm
- Supplied with a small length of cable, simply cut and join in line
- Low volt DC only

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ2065	$10.90	$9.80	$8.70

PCB Mount Fuse Holders

FUSE CLIPS

- Nickel plated
- PCB mount



	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
M205	8	SZ2018	$3.50	$2.90	$2.60
M205	100	SZ2019	$22.90	$20.30	$17.90
3AG	8	SZ2022	$3.50	$2.90	$2.60
3AG	100	SZ2023	$23.90	$20.90	$18.70

M205 PCB MOUNT FUSE HOLDER

PCB mounting M205 fuse holder. Supplied with screw cover to hold fuse in place.

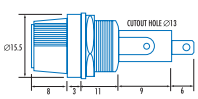
- Max Fuse: 6.3A @ 250VAC

MOUNT	Cat.	Qty 1+	Qty 10+	Qty 25+
M205 Vertical	SZ2038	$4.50	$3.70	$3.30
M205 Horizontal	SZ2039	$4.50	$3.70	$3.30

Panel Fuse Holders

M205 - LOW VOLT ONLY

- Takes M205 fuses (20 x 5mm)
- Recommended for low voltage DC side circuits only
- Panel hole 13mm
- 6.3A 240V max



	Cat.	Qty 1+	Qty 10+	Qty 25+
M205	SZ2030	$2.50	$2.00	$1.80

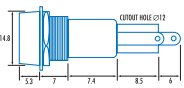
p.131 - circuit breakers

Panel Fuse Holders CONTINUED

M205 - SAFE

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object into the small rectangular hole on top of the fuseholder.

- Panel hole 12mm
- 6.3A 240V max

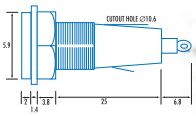


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2034	$2.50	$2.00	$1.80

M205 - VERY SAFE

6.3A 250V.

- Panel hole 11mm
- Fits M205 size fuses
- Screwdriver cover removal
- Fingers cannot touch metal inside

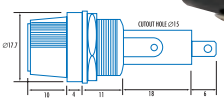


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2028	$3.50	$2.90	$2.60

3AG - LOW VOLT ONLY

10A 250V.

- Accepts 3AG fuses
- Panel hole 15mm
- Recommended for low voltage or DC side circuits only

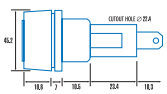


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2020	$2.50	$2.00	$1.80

3AG - SAFE

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object in to the small rectangular hole on top of the fuseholder.

- Panel hole 15mm
- 10A 250V

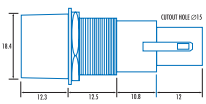


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2036	$3.50	$2.90	$2.60

3AG - VERY SAFE

3AG 10 amp 240V chassis mount (32 x 6.35 mm)

- Screwdriver cover removal
- Fingers cannot touch metal inside
- 10A 250V

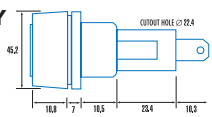


Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2025	$3.90	$3.10	$2.70

5AG - LOW VOLT ONLY

Panel mounting fuse holder, screw cap style. Suits 5AG sized fuses up to 30A current rating.

- Low voltage only



Cat.	Qty 1+	Qty 10+	Qty 25+
SZ2029	$5.90	$5.20	$4.70

p.183 - high current (DC only) wiring connector blocks

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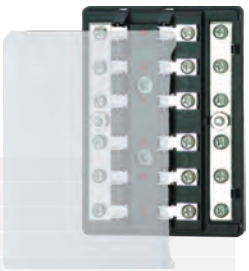
twitter.com/jaycarnz
youtube.com/user/JaycarVideo

3AG Fuse Blocks

6 WAY 3AG FUSE BLOCK WITH BLOWN INDICATORS

Individual LEDs illuminate when fuses are blown so you can check things at a glance. The clear cover keeps everything protected and 60 stickers are included for common applications to assist with identification. Holds standard 3AG fuses.



SPECIFICATIONS	SZ2021
Operating Voltage	32VDC Max
Max Fuse Current	30A
Max Block Current	100A cumulative
Dimensions	129(H) x 91(W)mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	3AG	SZ2021	$45.90	$40.90	$35.90

M205 Fuses - 20 X 5mm

M205 FAST BLOW

SF2148

100mA	Cat. SF2148	**1A**	Cat. SF2158	**4A**	Cat. SF2164
160mA	Cat. SF2152	**1.25A**	Cat. SF2159	**5A**	Cat. SF2166
200mA	Cat. SF2153	**2A**	Cat. SF2160	**6.5A**	Cat. SF2167
250mA	Cat. SF2154	**1.6A**	Cat. SF2161	**10A**	Cat. SF2168
315mA	Cat. SF2155	**2.5A**	Cat. SF2169		
500mA	Cat. SF2156	**3A**	Cat. SF2162		
800mA	Cat. SF2157	**3.15A**	Cat. SF2163		

Quantity breaks for one type only.

Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	$0.48	$0.42	$0.37

M205 SLOW BLOW

Slow blow M205 size glass fuses.

- Rated voltage 250VAC
- Dimensions 20(L) x 5(Dia)mm

SF2170

500mA	Cat. SF2170	**2A**	Cat. SF2174	**6.3A**	Cat. SF2175
1A	Cat. SF2172	**3A**	Cat. SF2176	**8A**	Cat. SF2178
1.5A	Cat. SF2173	**3.15A**	Cat. SF2177	**10A**	Cat. SF2179

Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	$1.50	$1.30	$1.20

Quantity breaks for one type only.

What does "AG" mean?
Automotive Glass

M205 CERAMIC FAST BLOW

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.

1.0A	Cat. SF2104	**3.15A**	Cat. SF2105	**6.3A**	Cat. SF2110
1.6A	Cat. SF2106	**4.0A**	Cat. SF2108	**8A**	Cat. SF2112
2.5A	Cat. SF2107	**5.0A**	Cat. SF2109	**10A**	Cat. SF2114

Quantity breaks for one type only.

Cat.	Qty 1+	Qty 10+	Qty 25+
All Types / Each	$1.50	$1.30	$1.20

Anthony Boulton likes to
think. possible.
"Facial recognition software for security, guest services, retail etc.. The advancement in the quality , speed and accuracy will make FR available to many businesses, at an affordable price, where you face can be your signature and your face can be your credit card."

M205 Fuses - 20 X 5mm CONTINUED

M205 CERAMIC SLOW BLOW

1.0A	Cat. SF2115	6.3A	Cat. SF2119
4A	Cat. SF2118	2.5A	Cat. SF2117
1.6A	Cat. SF2116	8A	Cat. SF2121

Quantity breaks for one type only.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	$1.90	$1.50	$1.30

M205 FUSE PACKS

40 FUSES

5 x 500mA, 10 x 1A, 10 x 2A, 5 x 3A, 5 x 5A, 5 x 10A

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF2242	$15.90	$13.70	$12.30

Ceramic Fuses - 25 X 6mm

CERAMIC FUSE 25 X 6MM FAST BLOW

The range of BS1362 compliant fuses is designed to suit fused British power plugs. There's lots of other equipment that won't take an M205 or 3AG fuse, and this 25mm fuse lies in the middle of the range.

- Ceramic fuse with nickel-plated end caps
- 6000A interrupting capacity
- Four ratings available: 3A, 5A, 10A and 13A

Current	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	SF2100	$1.70	$1.50	$1.30
5A	SF2101	$1.70	$1.50	$1.30
10A	SF2102	$1.70	$1.50	$1.30
13A	SF2103	$1.70	$1.50	$1.30

3AG Fuses - 1/4" X 1 1/4"

3AG FAST BLOW (32 X 6.35MM)

SF2182

100mA	Cat. SF2182	1.5A	Cat. SF2192	7.5A	Cat. SF2202
150mA	Cat. SF2184	2A	Cat. SF2194	10A	Cat. SF2204
250mA	Cat. SF2186	3A	Cat. SF2196	15A	Cat. SF2206
500mA	Cat. SF2188	4A	Cat. SF2198	20A	Cat. SF2208
630mA	Cat. SF2189	5A	Cat. SF2200	25A	Cat. SF2210
1A	Cat. SF2190	7A	Cat. SF2201		

Quantity breaks for one type only.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	$0.48	$0.42	$0.37

3AG CERAMIC FAST BLOW

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.

7A	Cat. SF2120	8A	Cat. SF2122	10A	Cat. SF2124

	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	$1.50	$1.30	$1.20

3AG SLOW BLOW

Slow blow 3AG size glass fuses. Rated voltage 250VAC. Dimensions: 30(L) x 6(Dia)mm

SF2226

1A	Cat. SF2226	3A	Cat. SF2230	7.5A	Cat. SF2233
1.5A	Cat. SF2227	4A	Cat. SF2231	10A	Cat. SF2234
2A	Cat. SF2228	5A	Cat. SF2232		

Quantity breaks for one type only.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	$1.50	$1.30	$1.20

3AG FUSE PACKS

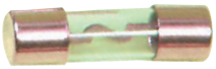
40 FUSES

The economical way to buy fuses. Consists of: 4 x 500mA, 8 x 1A, 6 x 1.5A, 4 x 2A, 6 x 3A, 4 x 5A, 4 x 7.5A, 4 x 10A

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF2240	$15.90	$13.70	$12.30

5AG Fuses - 3/8" X 1 1/2"

(10 X 38MM)



- Gold plated
- Suits the gold fuse holders in the car audio section
- Fuse size 38(L) x 10(Dia.)mm

20A	Cat. SF1970	40A	Cat. SF1974		
30A	Cat. SF1972	50A	Cat. SF1976	60A	Cat. SF1978

	Cat.	Qty 1+	Qty 4+	Qty 10+
	All Types / Each	$2.90	$2.30	$2.10

Gold 5AG Fuses - 3/8" X 1/2"

GOLD FUSEHOLDER WITH MOUNTING BRACKET

Gold contacts and will accept both 8GA & 4GA cable. A mounting bracket is incorporated. Length 80mm - accepts 5AG fuses.

AMP-KING

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
5AG	SZ2060	$11.90	$10.70	$9.50

5AG GOLD FUSES

These fuses suit our fuseholders shown here. Gold plated ends - and the inside conductor is also gold.

- Fuse size 38(L) x 10(Dia)mm

AMP-KING

Current	Cat.	Qty 1+	Qty 4+	Qty 10+
20A	SF1970	$2.90	$2.30	$2.10
30A	SF1972	$2.90	$2.30	$2.10
40A	SF1974	$2.90	$2.30	$2.10
50A	SF1976	$2.90	$2.30	$2.10
60A	SF1978	$2.90	$2.30	$2.10

DMM Fuses - Ceramic

FAST ACTING CARTRIDGE FUSES

As used in multimeters. Fast acting fuse designed for use in circuits with high AC fault current capacity. Listed by Underwriters Laboratories and certified by CSA.

SF2276 600V 1A
SF2272 1kV 10A
SF2274 600V 15A

SF2276

SF2277

SF2274

SF2279

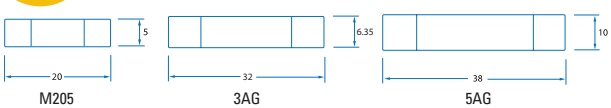
Spare ferrule fuses for our IP67 CAT IV rated DMMs:

SF2278 1kV 500mA
SF2279 1kV 800mA
SF2277 1kV 10A
SF2269 600V 500mA

SUITS FLUKE DMMS

Size(mm)	Cat.	Qty 1+	Qty 3+	Qty 6+
20 x 5.0	SF2269	$4.80	$4.30	$3.80
32 x 6.35	SF2279	$11.90	$10.70	$9.50
32 x 6.35	SF2278	$11.90	$10.70	$9.50
32 x 6.3	SF2272	$11.90	$10.70	$9.50
35 x 10	SF2276	$10.90	$9.50	$8.50
38 x 10	SF2274	$21.90	$19.30	$16.90
38 x 10	SF2277	$17.90	$15.90	$14.30

tech talk Fuse Dimensions



product data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

Blade Fuse Holders

30A IN-LINE BLADE FUSE HOLDER

Accepts standard car type blade fuses. Supplied with heavy duty cable in a loop. Simply cut and join to existing cable.
- Low volt DC only

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ2040	$3.90	$3.10	$2.70

30A PANEL MOUNT BLADE FUSE HOLDER

Panel mount for auto or marine applications. Takes standard blade fuses, rated for 12VDC 30A max.
- Cover included

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ2046	$4.90	$4.10	$3.70

30A IN-LINE BLADE FUSE HOLDER WITH FAILURE LAMP - WATER RESISTANT

These accept ordinary blade fuses and have an integrated lamp that will light up when the fuse blows, making it easy to find the offending fuse. This is especially useful if the fuse is in a difficult or crowded location. They are supplied with 110mm leads and available to suit standard blade and mini-blade fuses.
- 30A max rating
- Ideal for circuits up to 32VDC

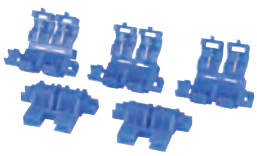
Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ2042	$5.90	$5.20	$4.70
Mini Blade	SZ2043	$5.90	$5.20	$4.70

30A BLADE FUSE HOLDER WITH SCREW TERMINALS

This blade fuse holder with in-built screw terminals provides a simple wiring solution to situations where circuit protection is required.
- Current: 30A maximum
- Dimensions: 35(L) x 32(W) x 6(D)mm

Type		Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	30A	SZ2044	$7.90	$7.20	$6.50

20A SELF CRIMPING BLADE FUSE HOLDER PACK



These are very simple blade fuse holders to install. The self crimping feature is easy to use and saves on installation time. No wire stripping or twisting required. No special tool required; just push in the wire and squeeze.
- Dimensions: 35(L) x 35(W)mm while open

Type			Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	20A	Pack of 5	SZ2049	$5.30	$4.75	$4.20

30A WATERPROOF BLADE FUSE HOLDER WITH LONG TRANSPARENT COVER

Quality transparent waterproof blade fuse holder. They are long enough to accept the circuit breaker blade fuse replacement models. The transparent cover allows you to inspect if a manual c/b has tripped, or able to see if an LED fuse has illuminated. This fuse holder provides extra protection against water and dust, ideal for marine applications.
- Dimensions: 65(L) x 25(W) x 15(D)mm

Type			Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	30A	Waterproof	SZ2047	$9.50	$8.50	$7.50

30A STACKABLE BLADE FUSE HOLDER (IN-LINE STYLE)

These fuseholders accept standard blade fuses. They slide together if more than one is required, so you could have a bank of these mounted in your car. They have a cap over the front which makes them look very neat and tidy.
- Handle 30 amps.
- Supplied with a wire loop - can be cut to suit
- Low volt DC only
- Dimensions: 41(L) x 24(H) x 10(W)mm

Type		Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	30A	SZ2045	$4.90	$4.10	$3.70

6 WAY AUTOMOTIVE FUSE BOX

Fits six standard car blade fuses. Fibreglass reinforced nylon base with splashproof polycarbonate cover
- 32VDC max
- 15A/circuit max
- 45A/block max
- 6.3mm QC terminals
- Dimensions: 112(L) x 46(W) x 40(H)mm

Type		Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	6 Way	SZ2002	$15.90	$13.70	$12.30

6 & 10 WAY BLADE FUSE BLOCKS

Convenient fuse blocks with integrated "fuse blown" indicator LEDs. The clear plastic cover allows you to quickly fault-find without disturbing your wiring. Includes quality bolt-down output connections for eye-terminals connection. Suitable for use in 12-24V systems, 30A max per fuse channel. Input cable up to 4-gauge. Uses standard automotive blade fuses, and includes a handy sheet of common labels, to make identification of connections even easier.
- Red LED "blown fuse" indicators
- Heavy duty bolt or convenient spade terminals
- Clear fuse cover

SZ2095 SZ2098

SPECIFICATIONS	ALL
Input Terminal Rating	32VDC @ 100A Max.
Input Wire Size	4-6 AWG
Output Terminal Rating	30A Max. per Circuit
Output Wire Size	12-16 AWG
Fuse	Automotive Blade up to 30A

	Dimensions	Cat.	Qty 1+	Qty 10+	Qty 25+
6 Way Screw	85(W) x 70(D) x 37(H)mm	SZ2095	$20.90	$18.90	$16.90
6 Way Spade	90(W) x 70(D) x 40(H)mm	SZ2096	$20.90	$18.90	$16.90
10 Way Screw	100(D) x 85(W) x 37(H)mm	SZ2097	$28.90	$25.90	$22.90
10 Way Spade	100(D) x 85(W) x 38(H)mm	SZ2098	$28.90	$25.90	$22.90

FUSE BLOCKS WITH BUS BAR

NEW

This versatile fuse block provides fused distribution of your positive terminals, as well as distribution for the negative wires. This is especially handy in a boat or caravan which may not have a chassis-ground type system. Each fuse output accepts up to a 30A, up to 100A combined, with handy fuse-blown indication. Fuses not included, uses standard automotive fuses.
- Up to 30A per output
- Red LED blown fuse indication
- Negative bus bar

SZ2031

SPECIFICATIONS	ALL
Main Line	Terminal Rating: M5 Threaded Studs (32VDC, 100A max.) Wire Size: #4-6 AWG
Single Line	Terminal Rating: M4 Threaded Studs (32VDC, 30A Max.) Wire Size: #12-16 AWG
Terminals	Nickel Plated Copper
Screws	Stainless Steel

	Cat.	Qty 1+	Qty 5+	Qty 10+
6 Way	SZ2031	$33.90	$29.90	$26.90
12 Way	SZ2032	$45.90	$40.90	$35.90

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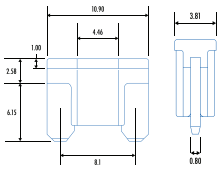
For next day delivery, or Click and Collect, see page 5

Standard Blade Fuses

MICRO BLADE FUSES - 10 PACK

Micro-blade fuses to suit newer model cars. The pack contains one each of 5, 7.5, 25, 30A and two each of 10, 15, 20A.



Current	Multipack	Cat.	Qty 1+	Qty 10+	Qty 25+
5-30A	Pkt 10	SF2146	$11.90	$10.70	$9.50

MINI BLADE FUSES

They look similar to the standard car blade fuses, except they are smaller. Used in new Holden Commodores, Falcons & more.

Quantity breaks for one type only

Current	Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
2A	Grey		SF1909	$1.50	$0.99	$0.90
3A	Pink		SF1910	$1.50	$0.99	$0.90
5A	Orange		SF1912	$1.50	$0.99	$0.90
7.5A	Brown		SF1913	$1.50	$0.99	$0.90
10A	Red		SF1914	$1.50	$0.99	$0.90
15A	Blue		SF1915	$1.50	$0.99	$0.90
20A	Yellow		SF1916	$1.50	$0.99	$0.90
25A	Clear		SF1917	$1.50	$0.99	$0.90

STANDARD BLADE FUSES

Quantity breaks for one type only

Current	Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
1A	Black		SF2126	$1.50	$0.90	$0.80
2A	Grey		SF2127	$1.50	$0.90	$0.80
3A	Pink		SF2128	$1.50	$0.90	$0.80
5A	Orange		SF2130	$1.50	$0.90	$0.80
7.5A	Brown		SF2132	$1.50	$0.90	$0.80
10A	Red		SF2134	$1.50	$0.90	$0.80
15A	Blue		SF2136	$1.50	$0.90	$0.80
20A	Yellow		SF2138	$1.50	$0.90	$0.80
25A	Clear		SF2137	$1.50	$0.90	$0.80
30A	Green		SF2139	$1.50	$0.90	$0.80
35A	Purple		SF2143	$1.50	$0.90	$0.80
40A	Orange		SF2141	$1.50	$0.90	$0.80

AUTOMOTIVE FUSE PACK

This kit contains around 120 standard size automotive fuses housed in a 6 compartment storage box. 20 x 5A, 10A, 15A, 20A, 25A & 30A fuses are included.

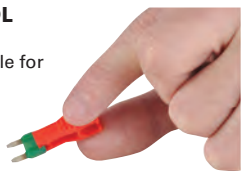
	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF2142	$28.90	$25.90	$22.70

Fuse Pulling Tool

BLADE & MINI BLADE PULLING TOOL

These handy fuse pullers make easy work of exchanging blown fuses. The device is suitable for both micro and mini blade fuses.

- Dimensions: 63(L) x 20(W) x 5(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Fuse Puller	TH1973	$2.60	$2.30	$2.00

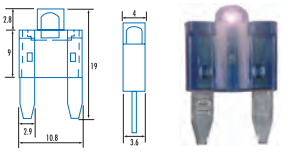
Blade Fuses With Failure Lamp

Not your ordinary blade fuse, these have an integrated lamp which illuminates the moment the fuse blows. This makes finding that blown fuse a cinch, especially when the fuse is in a hard to get location, like under the car dashboard. They don't cost much either, so they are a very worthwhile investment.

MINI BLADE FUSES

Quantity breaks for one type only

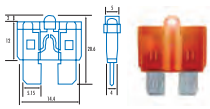
- Ideal for circuits up to 32VDC
- 19(H) x 10.8(L) x 4(W)mm approx



Current	Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
3A	Pink		SF5070	$1.90	$1.40	$1.20
5A	Orange		SF5072	$1.90	$1.40	$1.20
7.5A	Brown		SF5074	$1.90	$1.40	$1.20
10A	Red		SF5076	$1.90	$1.40	$1.20
15A	Blue		SF5078	$1.90	$1.40	$1.20
20A	Yellow		SF5080	$1.90	$1.40	$1.20
25A	Clear		SF5082	$1.90	$1.40	$1.20
30A	Green		SF5084	$1.90	$1.40	$1.20
5-30A	Pkt 6		SF5085	$8.90	$7.90	$6.90

STANDARD BLADE FUSES

- Dimensions:
  20.6(H) x 14.4(L) x 5(W)mm approx

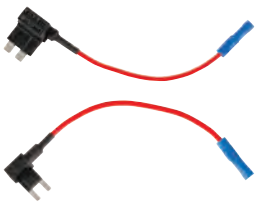


Current	Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
3A	Pink		SF5020	$1.50	$1.20	$1.10
5A	Orange		SF5022	$1.50	$1.20	$1.10
10A	Red		SF5026	$1.50	$1.20	$1.10
15A	Blue		SF5028	$1.50	$1.20	$1.10
20A	Yellow		SF5030	$1.50	$1.20	$1.10
30A	Green		SF5034	$1.50	$1.20	$1.10
5-30A	Pkt 6		SF5035	$7.90	$7.20	$6.50

Wire Tapped Blade Fuses

DOUBLE BLADE FUSE SOCKET WIRE TAP

If you've ever wanted to install 12VDC devices near or around your dash but have been put off by the need to manually install new wiring and run it into your engine bay this is a great solution. Simply plug the fuse into a socket in your fusebox and you'll have an instant 12VDC power source. A great way to power headrest monitors, extra internal car lighting, gauges, and more. Outputs to a female bullet crimp connector. Comes in standard and mini blade fuse models.



	Cat.	Qty 1+	Qty 10+	Qty 25+
Double Blade Fuse Socket	SF5115	$6.90	$5.90	$5.50
Double Mini Blade Fuse Socket	SF5125	$6.90	$5.90	$5.50

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Anl Wafer Fuses & Holders

GOLD ANL WAFER FUSES

These wafer fuses feature gold finish screw-down contacts for maximum current transfer and conductivity and are designed for really high current applications such as for car audio amplifiers, etc.

- Use with our SZ2075 - Inline Wafer Fuseholder
- 5 current ratings available

AMP-KING®

Current	Cat.	Qty 1+	Qty 4+	Qty 10+
80A	SF1990	$10.90	$9.50	$8.50
100A	SF1992	$10.90	$9.50	$8.50
150A	SF1995	$10.90	$9.50	$8.50
200A	SF1997	$10.90	$9.50	$8.50
250A	SF1999	$10.90	$9.50	$8.50

ANL IN-LINE FUSE HOLDER

A solid brass ANL inline fuse holder that is nickel plated. A great looking and functional fuse holder that is suitable for high end car audio installations.

- Dimensions: 95(L) x 50(W) x 36(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ2078	$19.90	$17.90	$15.90

Fuse Wire

MADE IN

FUSE WIRE

Includes 8 amp for lights and 15 amp for power. An essential item to carry in the fuse box of older homes. Have it there when you need it.

	Cat.	Qty 1+	Qty 10+	Qty 25+
Fuse Wire	SZ2005	$3.90	$3.10	$2.70

Circuit Breakers - Blade Fuse Size

A blade fuse that doesn't need replacing! This range of mini and standard size Blade circuit breakers are designed to directly replace standard or mini blade fuses. No need to fumble around in the dark looking for the blown fuse or to dig around in the toolbox for a suitable replacement. Choose between manual or automatic reset types. The manual type suit 12V-24V systems and trip once the current is exceeded, and allow you to fault find the circuit before resetting. The auto reset type suits 12V systems and will re-establish power to the circuit once the current returns to normal levels. Available in Mini or Standard size, and come in similar colour coding to standard blade fuses.

MINI BLADE CIRCUIT BREAKERS - MANUAL RESET

- Voltage: Circuits up to 28VDC
- Body dimensions: 25(L) x 12.5(W) x 7(D)mm (excludes 1mm reset button)
- Total length including blades: 35mm (excludes 1mm reset button)

Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Manual	SF2352	$7.90	$7.20	$6.50
10A	Red	Manual	SF2354	$7.90	$7.20	$6.50
15A	Blue	Manual	SF2355	$7.90	$7.20	$6.50
20A	Yellow	Manual	SF2356	$7.90	$7.20	$6.50

STANDARD BLADE CIRCUIT BREAKERS - MANUAL RESET

- Voltage: Circuits up to 28VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm (excludes 1mm reset button)
- Total length including blades: 31mm (excludes 1mm reset)

Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Manual	SF2330	$7.90	$7.20	$6.50
7.5A	Brown	Manual	SF2331	$7.90	$7.20	$6.50
10A	Red	Manual	SF2333	$7.90	$7.20	$6.50
15A	Blue	Manual	SF2334	$7.90	$7.20	$6.50
20A	Yellow	Manual	SF2335	$7.90	$7.20	$6.50
25A	White	Manual	SF2336	$7.90	$7.20	$6.50
30A	Green	Manual	SF2337	$7.90	$7.20	$6.50

MINI BLADE CIRCUIT BREAKERS - AUTO RESET

- Voltage: Circuits up to 14VDC
- Body dimensions: 25(L) x 12.5(W) x 6(D)mm
- Total length including blades: 35mm

Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Auto	SF2342	$7.90	$7.20	$6.50
10A	Red	Auto	SF2344	$7.90	$7.20	$6.50
15A	Blue	Auto	SF2345	$7.90	$7.20	$6.50
20A	Yellow	Auto	SF2346	$7.90	$7.20	$6.50

STANDARD BLADE CIRCUIT BREAKERS - AUTO RESET

- Voltage: Circuits up to 14VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm
- Total length including blades: 31mm

Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Auto	SF2320	$7.90	$7.20	$6.50
7.5A	Brown	Auto	SF2321	$7.90	$7.20	$6.50
10A	Red	Auto	SF2323	$7.90	$7.20	$6.50
15A	Blue	Auto	SF2324	$7.90	$7.20	$6.50
20A	Yellow	Auto	SF2325	$7.90	$7.20	$6.50
25A	White	Auto	SF2326	$7.90	$7.20	$6.50
30A	Green	Auto	SF2327	$7.90	$7.20	$6.50

Circuit Breakers

CHASSIS MOUNT AUTO CIRCUIT BREAKERS

Single pole thermal circuit breaker. Auto reset.

- 12 and 24VDC in current ratings from 20 - 50A

SF4100

Amp	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
20A	12VDC	SF4100	$9.90	$8.70	$7.70
30A	12VDC	SF4102	$9.90	$8.70	$7.70
40A	12VDC	SF4104	$9.90	$8.70	$7.70
50A	12VDC	SF4106	$9.90	$8.70	$7.70
20A	24VDC	SF4108	$9.90	$8.70	$7.70

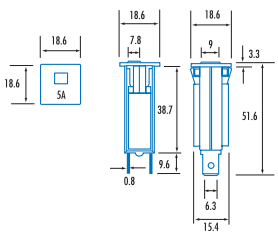
PANEL MOUNT THERMAL CIRCUIT BREAKERS (CBE)

IEC 934 TYPE "R/TO"

These attractive looking units feature a black 19mm square facade with a centrally mounted bright red 'trip' button.

- When tripped, the red button extends
- To reset simply push button back in (once fault has been cleared)
- Slow response time ideal for inductive/reactive loads

SPECIFICATIONS	ALL MODELS
Hold Current	100% load indefinitely
Trip Current	Within 1 hour @ 135% load, Within 1 min. @ 200% load
Input	32VDC, 125VAC & 250VAC
Dielectric Strength	1500VAC 1 Minute
Contact Endurance	>500 cycles @ 150% of contact rating.



SF2293

Amp	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
3	0.16	SF2293	$10.90	$9.50	$8.50
5	0.12	SF2295	$10.90	$9.50	$8.50
7	0.075	SF2297	$10.90	$9.50	$8.50
10	0.015	SF2300	$10.90	$9.50	$8.50
15	0.008	SF2315	$10.90	$9.50	$8.50

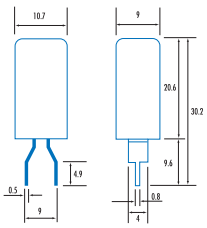
For next day delivery, or Click and Collect, see page 5

Circuit Breakers CONTINUED

PCB MOUNT THERMAL CIRCUIT BREAKERS (SPST)

Miniature auto-resetting thermal type units that solder directly into a PCB.

- Ideal for protecting power supplies, amplifier output transistors, appliances etc
- Slow response time is ideal when capricious tripping would be a nuisance
- Judicious selection of breaker rating will ensure protection without unnecessary tripping



SF2281

SF2284

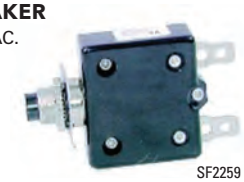
SPECIFICATIONS	ALL MODELS
Calibration	100% rated; will not trip. (all at 25°C) 101-170% increasing likelihood of trip / 175-199% trip within 1 hour. 200% within 1 minute / 200% + from 1 minute to seconds.
Input	12VDC, 125VAC
Dielectric Strength	1500VAC 1 Minute
Contact Endurance	>1000 cycles, @ 150% of contact rating.

		Cat.	Qty 1+	Qty 10+	Qty 25+
1.5	0.12	SF2281	$8.90	$7.90	$6.90
3	0.075	SF2283	$8.90	$7.90	$6.90
4	0.050	SF2284	$8.90	$7.90	$6.90
5	0.050	SF2285	$8.90	$7.90	$6.90

ELECTRICAL TYPE CIRCUIT BREAKER

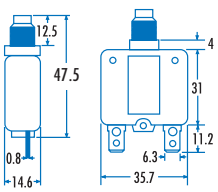
These circuit breakers are rated at 250VAC.

- Maximum voltage 250VAC or 50VDC
- Will hold 100% of rated current indefinitely at 25°C
- Derate at higher temperatures
- Manual push reset
- Insulation resistance >100M ohm
- Mounting hole diameter 12mm
- Size 46(H including terminals) x 35.7(D) x 14.6(W)mm



SF2259

TYPICAL DERATING FACTORS		
TEMP°C	10-25A	2-5A
60	0.50	-
50	0.60	-
40	0.72	0.45
30	0.85	0.70
25	1.00	1.00
20	1.10	1.20
10	1.25	1.45



% OF RATING	TIME TO TRIP
100	Indefinite
150	< 1 hour
200	4.0 - 30.0 sec
300	2.5 -11.0 sec
400	1.6 - 7.0 sec
500	0.8 - 2.5 sec
600	0.6 - 1.7 sec

Amp	Approval	Cat.	Qty 1+	Qty 10+	Qty 25+
3	CS8389N	SF2252	$10.90	$9.50	$8.20
5	CS8389N	SF2254	$10.90	$9.50	$8.20
10	CS8389N	SF2258	$10.90	$9.50	$8.20
15	CS8389N	SF2259	$10.90	$9.50	$8.20
20	CS8389N	SF2260	$10.90	$9.50	$8.20
25	CS8389N	SF2261	$10.90	$9.50	$8.20

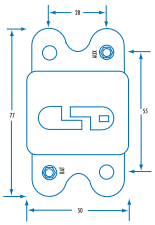
HEAVY DUTY PANEL MOUNT CIRCUIT BREAKERS

A range of heavy duty and high quality panel mount circuit breakers. The reset switch on these units are high grade and will not fail in short period unlike other units in the market. It has a protective plastic cover to prevent accidental shortage. Incorporates multi-wire gauge inputs and outputs, they are perfect for high end car audio installations, automotive wiring or solar installations. Terminals are platinum plated.

- Measures at 85(W) x 68(H) x 35(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
60A	SZ2081	$48.90	$44.00	$39.10
120A	SZ2083	$48.90	$44.00	$39.10
200A	SZ2085	$48.90	$44.00	$39.10

HIGH CURRENT DC CIRCUIT BREAKERS



Moulded in black electrical grade bakelite, these rugged and reliable devices allow you to simply reset rather than find another expensive fuse. They offer lower voltage drop than a fuse and can be used as an occasional circuit isolation switch. Two popular current ratings. Both units have the same physical dimensions. Ideal for car sound installations. Operating voltage is 12 to 14VDC. Each device will trip within a few milliseconds under short circuit conditions and feature protective rubber caps, test button and gold plated 5mm dia. terminals.

70A 12-14VDC

Will trip within 1 minute at 90A load. Will trip within a few milliseconds under short circuit conditions. Supplied with 5mm dia gold plated terminals with captive shakeproof washer and provision for up to 1/4" mounting bolts. Protective rubber caps for terminals. Test button on top of unit enables circuit breaker to be used as switch circuit restored with simple lever action.

SF2265

100A 12-14VDC

Will trip at 110A or immediately under short circuit conditions.

Rating (A)	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
70	0.12	SF2265	$32.90	$29.40	$26.40
100	0.075	SF2266	$32.90	$29.40	$26.40

MARINE GRADE ILLUMINATED SWITCH PANELS WITH CIRCUIT BREAKERS

An economical solution to controlling multiple DC circuits on your boat, or any other application where you want to switch multiple DC circuits. Each switch panel is an attractive moulded ABS plate, with high quality 10A rated illuminated rocker switches and re-settable circuit breakers on each circuit. Power is supplied on a common rail to keep wiring neater, and wiring connections are made with standard spade terminals.

Two versions available:

4 WAY CAT. SZ1902

- Dimensions 110(H) x 100(W) x 45(D)mm

6 WAY CAT. SZ1903

- Dimensions 160(H) x 100(W) x 45(D)mm

SZ1902

Size	Cat.	Qty 1+	Qty 10+	Qty 25+
4 Way	SZ1902	$48.90	$44.00	$39.10
6 Way	SZ1903	$59.90	$53.90	$47.90

IP66 MARINE SWITCH PANELS WITH CIRCUIT BREAKERS

These units feature the attractive tactile rocker switches that are common on luxury Australian and foreign made motor cruisers. The panels have Butyl rubber gaskets and IP66 water resistant rated switches and circuit breakers, making these switch panels suitable for an exposed environment. They are pre-wired as much as possible, with wiring connections made via standard spade terminals for ease. Both require about 80mm of space behind the mounting bulkhead. The 4 way has 6,10,15 & 20A rated circuit breakers and the 6 way has 6,6,10,10,15 & 20A breakers, and the switches feature LED illumination to let you know which circuit is active.

- Moulded from ABS plastic

Two versions available:
4 Way: 120(H) x 130(W)mm
6 Way: 170(H) x 130(W)mm

SZ1906 SZ1907

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
4 Way	SZ1906	$86.90	$78.20	$69.50
6 Way	SZ1907	$119.00	$106.90	$94.90

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Circuit Breakers CONTINUED

ANTI-TAMPER 4-GANG SWITCH BANK/CIRCUIT BREAKER

This switch bank consists of a gang of 4 x 16A/12VDC circuit breaker rocker switches pre-wired with protective translucent panels to discourage naughty fingers tampering with them. The rockers act like switches but will behave like a circuit breaker if any circuit pulls more than 16A. They would typically be used to power all sorts of things while under way which should not be turned off.

Each translucent panel has a recess to accept a permanent sticker annunciating the function of the switch. A sheet of decal annunciators is supplied with 45 (yes 45) labels. These range from "Bilge Pump" to "Deck Wash", to "Fridge", "Macerator Pump", "Radar", "VHF", etc. Front dimensions of the panel are 130(W) x 50(H)mm. Approx. 40mm is needed behind the panel for wiring access. 2 x No. 8 countersunk screws are supplied.

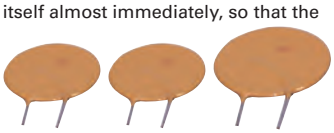
	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ1926	$33.90	$29.90	$26.90

Polyswitches

PTC FUSES - CIRCUIT PROTECTION

Polyswitch protectors are based on conductive polymers and act like resettable solid state circuit breakers. When the operating current of the protector is exceeded the interior of the device partially melts, which increases the volume increasing the resistance drastically. This in turn reduces the current. The device stays in this state while the current is maintained because its temperature is elevated. Once the current is removed, the device re-establishes itself almost immediately, so that the low resistance value is restored.

- Voltage ratings RN3460/62 - 60V; the rest are 50V



CAT.	INDUSTRY PART NO	TRIP WATTS 4Ω	6Ω	8Ω	TRIP CURRENT AMPS
RN3460	RXE075	5.1	7.7	10.2	1.50
RN3462	RXE090	7.3	10.9	14.6	1.8
RN3464	RXE110	10.9	16.3	21.8	2.2
RN3466	RXE160	23.0	34.6	46.1	3.2
RN3468	RXE185	31.4	47.0	62.7	3.7
RN3470	RXE250	56.3	84.4	112.5	5.0

Industry No.	Cat.	Qty 1+	Qty 10+	Qty 25+
RXE075	RN3460	$3.90	$3.30	$2.90
RXE090	RN3462	$4.10	$3.60	$3.10
RXE110	RN3464	$4.50	$3.90	$3.40
RXE160	RN3466	$4.90	$4.30	$3.90
RXE185	RN3468	$4.90	$4.30	$3.90
RXE250	RN3470	$5.70	$4.90	$4.40

Joshua Natt likes to

think. possible.

"My 3D printer, so far I've seen flexible filament and conductive as well now a heat proof that can be used to make heatsinks. I believe that in the next few years everyone will have a 3D printer in their house to repair and make day-to-day items, using recycled materials such as pet bottles."

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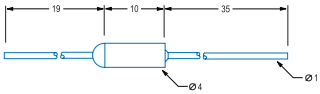
Thermal Protection

THERMAL FUSES

These devices go open circuit permanently when they reach their rated temperature. They are used extensively in 240V mains rated appliances including, heaters, fan heaters, curlers, hair dryers, toasters, etc.

- UL, CSA Approved



CAT.	Tf°C	Th°C	Tm°C	OPENING TEMP
ST3800	75	50	105	70°C +3/-1
ST3804	136	101	166	132°C +2/-2
ST3808	158	123	263	154°C +0/-5
ST3810	185	150	263	192°C +1/-3
ST3812	219	174	249	214°C +2/-2
ST3814	233	188	263	229°C +1/-3

Marking	Cat.	Qty 1+	Qty 10+	Qty 25+
Yellow	ST3800	$4.50	$3.70	$3.30
Grey	ST3804	$4.50	$3.70	$3.30
Black	ST3808	$4.50	$3.70	$3.30
Light Green	ST3810	$4.50	$3.70	$3.30
Dark Green	ST3812	$4.50	$3.70	$3.30
Dark Blue	ST3814	$4.50	$3.70	$3.30

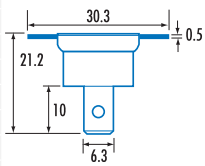
Thermostat Switches

THERMAL CIRCUIT BREAKER/SWITCH

AUTOMATIC RESETTING BI-METALLIC DISC, SNAP ACTING

This phenolic-housed unit attaches to any metal surface which needs to be heat monitored.

- Normally closed or normally open available



SPECIFICATIONS	ALL MODELS
Operating Tolerance	+/- 5°C (32VDC), +/- 8°C(125VAC), +/- 10°C (250VAC)
Reset Differential	10°C - 50°C
Contact Endurance	32VDC - 100mA - 50,000 cycles
Cycles	125VAC - 10A - 100,000 cycles
Cycles	250VAC - 6A - 30,000 cycles
Interrupt Capacity	125VAC x 60A - 5 cycles
Overshoot Temperature	200°C/5 minutes
Dielectric Strength	1500VAC 1 minute
Reset Type	Auto Reset

Opening Temp (°C)	Reclosing Temp (Approx °C)		Cat.	Qty 1+	Qty 10+	Qty 25+
60	40	Normally Closed	ST3821	$6.90	$5.90	$5.50
70	58	Normally Closed	ST3823	$6.90	$5.90	$5.50
90	75	Normally Closed	ST3825	$6.90	$5.90	$5.50
100	85	Normally Closed	ST3826	$6.90	$5.90	$5.50

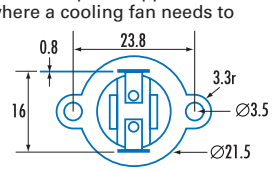
NORMALLY CLOSED

When the surface meets or exceeds a certain temperature the SPST bi-metallic element goes open circuit.

- The unit resets automatically when temperature falls below a specified limit
- Ideal for any electrical item that needs thermal protection

NORMALLY OPEN

These thermostat switches have normally open contacts. They operate once the temperature reaches a specified limit and automatically reset to their original normally open state once the temperate drops below its rated temperature. These are suitable for power amplifier applications and other temperature sensitive devices where a cooling fan needs to be integrated to cool the device down. Mounting holes are provided, ideal for attachment to a heatsink or any metallic surface.



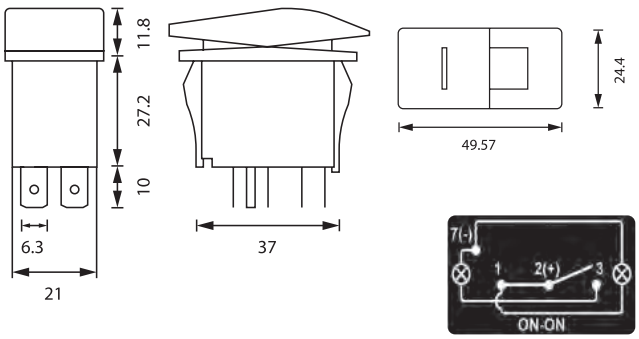
Thermostat (°C)		Cat.	Qty 1+	Qty 10+	Qty 25+
50	Normally Open	ST3831	$6.90	$5.90	$5.50
70	Normally Open	ST3833	$6.90	$5.90	$5.50
100	Normally Open	ST3836	$6.90	$5.90	$5.50

For next day delivery, or Click and Collect, see page 5

individual "contura" style DC rocker switches

These are the superb looking rocker switches that you have seen in the cockpits of the 70-100ft luxury motor cruisers recently. They would look great in your 4WD, RV, Caravan or any other application as well. The base switch supplied (rated at 12V 20A, 24V 10A) comes with a double-LED illumination (low in OFF, high in the ON position), a standard rocker cover and a standard range of decals to customise the switch to your application. Typical decals are symbols for: windscreen wipers, horn, heater, etc; there are dozens of these decals included. Also available are a set of special laser-etched covers with the following graphic symbols to really create a professional finish. You need to buy the basic switch (in blue, white or red illumination) and then the custom cover (if required).

SK0910 SK0912 SK0914 SK0916



Rating		Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 20A/24V 10A	SPDT	White	SK0910	$17.90	$16.10	$14.30
12V 20A/24V 10A	SPDT	Red	SK0912	$17.90	$16.10	$14.30
12V 20A/24V 10A	SPDT	Blue	SK0914	$17.90	$16.10	$14.30
12V 20A/24V 10A	SPDT	Amber	SK0916	$17.90	$16.10	$14.30

MODULAR ROCKER SWITCH BRACKETS

Compatible with our Contura style switches, these brackets use a clever modular design allows you to "stack" multiple rocker switches together into a single cutout. The end-cap piece works for either end, and you can put as many centre pieces in as you like. Also available in a single-switch mount. 100% interchangeable with the round-hole variant of these brackets - PS2806/PS2808 (See page 408).

SK0800 SK0802 SK0804

	Cat.	Qty 1+	Qty 10+	Qty 50+
Single Mount	SK0800	$4.00	$3.60	$3.20
Modular End	SK0802	$4.00	$3.60	$3.20
Modular Centre	SK0804	$4.00	$3.60	$3.20

p.408 - "Contura" Style USB Sockets

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

SK0920 SK0921 SK0922 SK0923 SK0924

SK0929 SK0925 SK0926 SK0927 SK0928

Laser-etched Rockers	Cat.	Qty 1+	Qty 10+	Qty 25+
12V Power	SK0920	$3.90	$3.60	$3.20
Fridge	SK0921	$3.90	$3.60	$3.20
Aux Battery	SK0922	$3.90	$3.60	$3.20
Interior Lights	SK0923	$3.90	$3.60	$3.20
Spot Lights	SK0924	$3.90	$3.60	$3.20
Horn	SK0925	$3.90	$3.60	$3.20
Rear View Camera	SK0926	$3.90	$3.60	$3.20
Inverter	SK0927	$3.90	$3.60	$3.20
Driving Lights	SK0928	$3.90	$3.60	$3.20
Thermofan	SK0929	$3.90	$3.60	$3.20

ILLUMINATED BLUE ROCKER SWITCH PANELS

NEW

Straight forward installation and wiring, with just four connections - everything else is pre-wired! Then all you need to do is connect your various peripheral devices. Switches are rated at 20A for a 12V system (10A for 24V) up to a maximum 45A per panel. The LED illumination is powered separately, so you can run it through a switch or dimmer too.

- Easy installation
- High quality switches
- Blue LED illumination

SZ1923

SZ1925

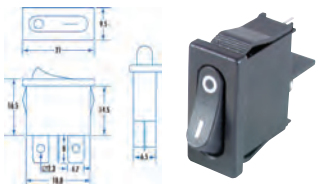
SPECIFICATIONS	ALL
Switch Rating	12VDC @ 20A 24VDC @ 10A
Panel Rating	45A Total

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Way	SZ1923	$45.90	$40.90	$35.90
4 Way	SZ1924	$69.90	$62.90	$55.90
6 Way	SZ1925	$94.90	$84.90	$75.90

Rocker Switches CONTINUED

SPST - ULTRA MINI

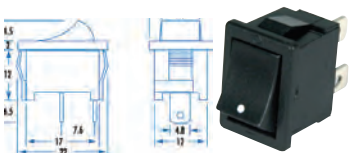
- Snap in fitting
- SPST 250VAC 6A
- Cutout size 6.5(W) x 19(H)mm
- Black body, black actuator
- QC tab termination 6.4mm (PT4607)



		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SPST	SK0975	$2.50	$2.00	$1.80

SPST - MINI

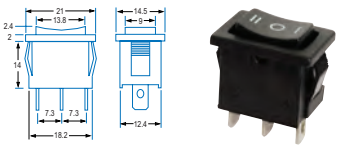
- Dimensions: 21 x 15mm
- Panel cut out size 13 x 19.5mm
- QC tab termination
- SPST 240V 6A
- Black actuator



		Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 6A	SPST	SK0984	$2.50	$2.00	$1.80

SPDT - CENTRE OFF

- Latching
- Voltage: 250VAC
- Current: 6 Amp



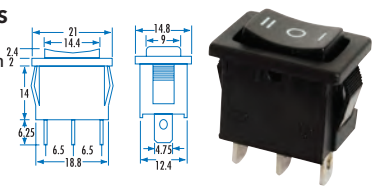
		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SPDT	SK0991	$5.90	$5.20	$4.70

SPDT - MINI - CENTRE OFF

SPRING RETURN BOTH SIDES

Momentary contacts with spring return to centre on both sides.

- Mini QC tab termination 6.4mm (PT4607)
- Contact arrangement SPDT N.O.



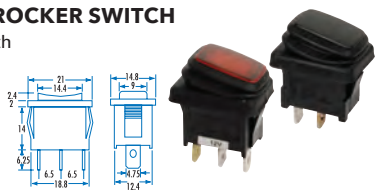
Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250V 6A	SPDT	SK0987	$5.90	$5.20	$4.70

SPST IP56 RATED MINI ROCKER SWITCH

SPST mini rocker switches with spade QC lugs. Sealed with a rubber boot and IP56 rated.

Two types available:

- Black: SK0968
- Red (illuminated): SK0969
- Cutout: 18.8 x 12.5mm

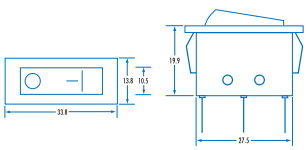


Rating	Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	Black		SK0968	$6.90	$5.90	$5.50
12VDC 16A	Red - Illuminated		SK0969	$8.50	$7.20	$6.20

SPST - ILLUMINATED

Black body with illuminated actuator. Ideal replacements for appliances

- Snap in fitting
- QC tab termination 6.8mm (PT4507)
- Cutout: 33.8 x 13.8mm

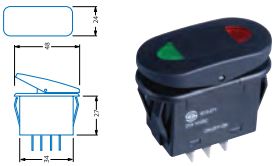


Rating	Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A	Blue		SK0976	$4.50	$3.70	$3.30
240VAC 15A	Red		SK0978	$4.50	$3.70	$3.30
240VAC 15A	Green		SK0979	$4.50	$3.70	$3.30

SPDT IP65 ILLUMINATED CENTRE OFF ROCKER SWITCH

IP65 rated, illuminated switch for automotive and marine applications. Illuminates one side red and one side green

- On-Off-On
- Rating: 14VDC, 21A
- Cutout size: 34 x 21mm

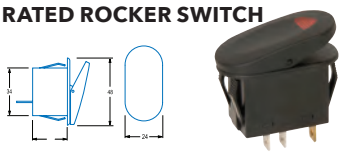


Rating			Cat.	Qty 1+	Qty 10+	Qty 25+
14VDC 21A		SPDT	SK0999	$15.90	$13.70	$12.30

SPST ILLUMINATED IP56 RATED ROCKER SWITCH

IP56 rated, large rocker actuator.

- SPST
- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 20.5 x 37mm

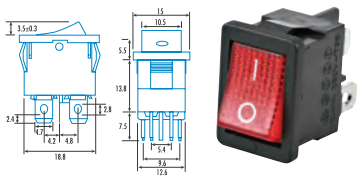


Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A Red Illuminated		SK0997	$15.90	$13.70	$12.30

DPST - MINI - NEON ILLUMINATED

- 240VAC
- Illuminated actuator
- Solder terminals
- QC tab termination 6.4mm (PT4607)

AS USED IN OUR POWERBOARDS

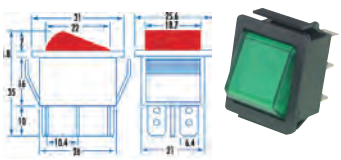


Rating		Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 10A	DPST	Red		SK0995	$5.90	$5.20	$4.70

DPDT - LARGE - NEON ILLUMINATED

Mains Illuminated. DPDT 240VAC 15 amp.

- Black body, available in red or green illumination
- Spade lug connections
- Cutout 27 x 22mm
- QC tab termination 6.8mm (PT4507)

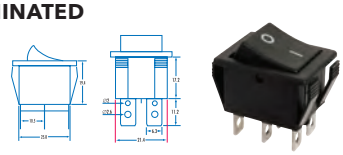


Rating		Colour		Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A	DPDT	Red		SK0982	$5.90	$5.20	$4.70
240VAC 15A	DPDT	Green		SK0983	$5.90	$5.20	$4.70

DPDT - LARGE - NON ILLUMINATED

DPDT switch with black body and black actuator.

- QC tab termination
- 240VAC 16A
- Snap in fitting



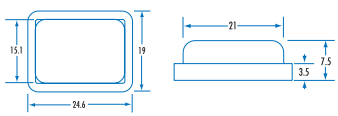
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 16A	SK0981	$4.90	$4.10	$3.70

WATERPROOF CAPS FOR ROCKER SWITCHES

Push-on, clear plastic caps to suit rocker switches.

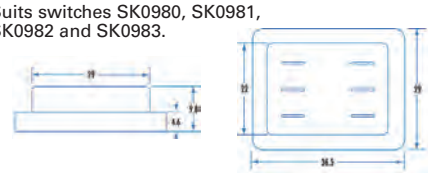
SUITS MINI SWITCHES

Suits switches SK0984, SK0985 and SK0987.



SUITS LARGE ROCKER SWITCHES

Suits switches SK0980, SK0981, SK0982 and SK0983.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits Mini Rocker Switches	SK0970	$1.90	$1.50	$1.30
Suits Larger Rocker Switches	SK0972	$2.50	$2.00	$1.80

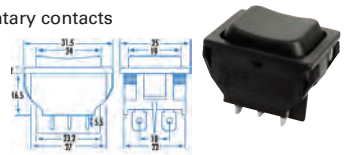
For next day delivery, or Click and Collect, see page 5

Rocker Switches CONTINUED

DPDT - LARGE - CENTRE/OFF

Spring Return Both Sides, Momentary contacts with spring returns to centre on both sides. These are commonly used for car power antennas and power windows.

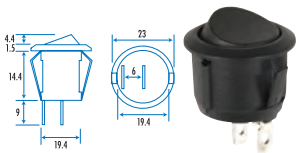
- Rated at 10A 250VAC
- QC tab termination 6.4mm (PT4607)



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK0980	$9.90	$8.50	$7.50

SPST - ROUND ACTUATOR

- Snap fits into a 20mm round hole
- 10 amps @ 250VAC
- Black body with black actuator
- QC tab termination 6.4mm (PT4607)

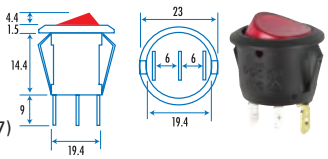


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK0960	$2.90	$2.30	$2.10

SPST - ROUND ACTUATOR

Illuminated Red

- Snap fits into a 20mm round hole
- 6A @ 250VAC
- Black body with red neon actuator
- QC tab termination 6.4mm (PT4607)

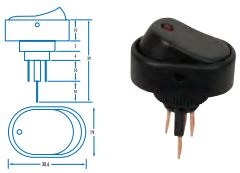


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK0962	$3.90	$3.10	$2.70

SPST - ROCKER ACTUATOR

LED Illuminated - Red. This is a classy switch. It is a rocker, but only needs a round 12mm hole (with 1mm flat). It is SPST and can handle a massive 30 amps at 12VDC. There is an LED in the actuator which lights from a 9 - 12V source.

- QC tab termination 6.8mm (PT4507)

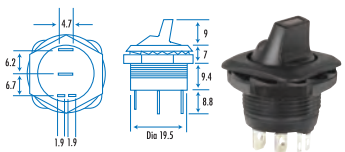


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 30A	SK0955	$5.90	$5.20	$4.70

SPST - PADDLE

Illuminated paddle type actuator with built in red LED.

- Mounts easy in a 20mm hole
- 6A @ 250VAC
- LED requires 12V @ 20mA
- Black body
- QC tab termination 6.8mm (PT4507)
- Solder tabs for LED

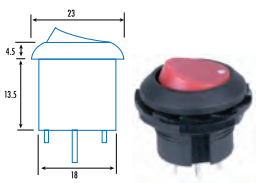


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK0964	$5.90	$5.20	$4.70

DPDT ROUND ACTUATOR - RED

This rocker mounts in a round 18mm hole.

- DPDT
- 6 amps @ 250VAC
- Black body, red actuator
- Solder pins
- 18mm mounting hole

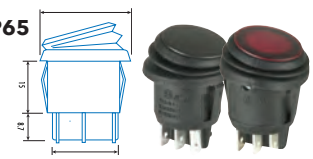


Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK0994	$5.90	$5.20	$4.70

DPDT - ROUND ACTUATOR - IP65

DPDT round rocker switches with mini spade QC lugs. Sealed with a rubber boot and IP65 rated.

- 20mm mounting hole



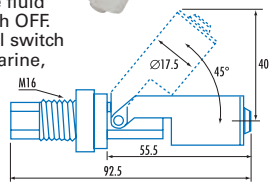
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A Black	SK0966	$8.90	$7.90	$6.90
250VAC 6A Red - Illuminated	SK0967	$9.90	$8.50	$7.50

Float Switches

FLOAT SWITCH

VERTICAL OR HORIZONTAL MOUNT NO or NC. Ideal for use in conjunction with solenoid valves, water pumps, etc., this float switch can be made NO or NC (Normally Open or Normally Closed) by the orientation of the float. Horizontally mounted so the float falls, when the fluid level rises it will switch ON at maximum float height. Mounting the switch so the float rises upwards when the fluid level rises above switch height it will switch OFF. Vertical mounting, with the float down, will switch OFF at a high fluid level. Widely used in marine, automobile, industrial, agricultural fluid level sensing applications.

- 560mm wire leads
- 92.5(L)x 18(D)mm x M16
- Float Rise height: 40mm from centreline



	Cat.	Qty 1+	Qty 10+	Qty 25+
NO or NC	SF0920	$24.90	$22.40	$19.90

TOP MOUNTING FLOAT SWITCH (LEVEL DETECTOR)

1 YEAR WARRANTY

Ideal to control tank filling systems this vertical movement float switch fits quickly to the lid or top cover of a tank or other container. A mere 20mm travel distance for the float will trigger the switch ensuring you leave an air gap and don't overfill the vessel. Contacts are closed when the float is out of liquid and open when the float is elevated.

- Dimensions: 70(L) x 23(Dia)mm
- Contact Rating: 200V 500mA
- Mounting Diameter: 8mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF0922	$21.90	$19.30	$16.90

Bell Pushbuttons

SPST ILLUMINATED BELL PUSHBUTTON

This door bell button has a small globe mounted behind which illuminates the pushbutton and an area where you can place your name or street number. Supplied with 12V globe, which also works on lower voltage.

- Contact Arrangement SPST N.O.
- Globe in parallel with contacts

Type	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Pushbutton	SPST	SP0782	$9.90	$8.50	$7.50
Spare Globe	SPST	SL2720	$2.50	$2.00	$1.80

Lamp Style Pushbutton Switch

240V 2A BED LAMP STYLE PUSHBUTTON

Universal pushbutton switch suitable for replacing switches in some equipment. Also commonly used in small electronics projects such as school science experiments due to ease of connection using screw terminals

- 240V 2A rating
- Panel mounting hole: 10mm
- Maximum panel thickness: 2.5mm
- Pushbutton stem: 7(L) x 5(Dia.)mm
- Dimensions: 25(H) x 24(L) x 12(W)mm

Sorry! We cannot find a double pole version of this switch.

Type	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Pushbutton	SPST	SP0735	$2.40	$2.15	$1.90

Inline DC Switch

INLINE LOW VOLTAGE SWITCH

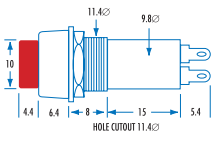
Simply connect your plug pack adaptor into this handy in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off. Fitted with 2.1mm DC plug & socket and rated at 24VDC at 2 amps.

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 2A	SK0998	$9.90	$8.50	$7.50

Pushbutton Switches

SPST SQUARE

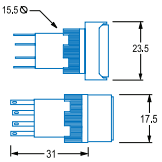
Rated 3A 250VAC.
- Mounting hole 12mm



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
Push-on Momentary SPST Red	SP0716	$2.50	$2.00	$1.80
Push-on/Push off SPST Black Latching	SP0718	$2.50	$2.00	$1.80
Push-Off (N/C) SPST Momentary - Red	SP0717	$2.50	$2.00	$1.80

DPDT ILLUMINATED - IP65

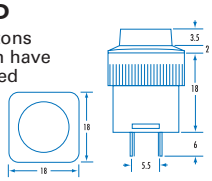
- Available in momentary or on/off action
- Rated for 250VAC 3A
- 12VDC LED illumination
- Mounting hole 15mm
- IP65 rated
- Contact arrangement DPDT N.O./N.C.



Rating	Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A	Momentary	Red	SP0741	$13.90	$12.90	$10.90
250VAC 3A	Push On Push Off	Red	SP0745	$15.90	$13.90	$12.90
250VAC 3A	Momentary	Green	SP0747	$13.90	$12.90	$10.90
250VAC 3A	Push On Push Off	Green	SP0749	$15.90	$13.90	$12.90

SPST LED ILLUMINATED

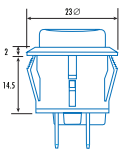
These short bodied pushbuttons are available in 2 styles. Both have red LEDs behind a red diffused actuator.
- Rated at 1.5A 250VAC
- LED needs 2VDC @ 20mA



Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	Momentary	SP0706	$7.90	$7.20	$6.50
250VAC 1.5A	Push On Push Off	SP0704	$7.90	$7.20	$6.50

DPDT ROUND - IP56

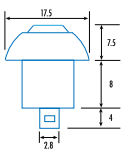
IP56 rated round pushbutton switches.
- QC spade lugs
- Push on/push off
- Mounting hole: 20mm dia



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A DPST	Black	SP0743	$7.90	$7.20	$6.50
250VAC 6A DPST	Red Illuminated	SP0751	$8.90	$7.70	$6.70

SPST DOME - IP67

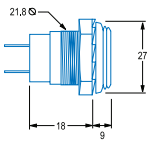
- IP67 rated
- Momentary action
- Mounting hole 12mm
- Contact arrangement SPST N.O.



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
50V 100mA SPST	Black	SP0656	$5.90	$5.20	$4.70
50V 100mA SPST	Red	SP0657	$5.90	$5.20	$4.70

SPST ROUND - IP65

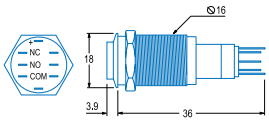
- Available in momentary or on/off action
- Rated for 14V 10A
- Mounting hole 22mm
- Contact arrangement SPST N.O.
- IP65 rated



Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 10A	Black	Momentary	SP0756	$8.90	$7.90	$6.90
12V 10A	Red	Momentary Illuminated	SP0757	$10.90	$9.50	$8.50
12V 10A	Black	Push On Push Off	SP0758	$8.90	$7.90	$6.90
12V 10A	Red	Push On Push Off Illum	SP0759	$10.90	$9.50	$8.50

DPDT ILLUMINATED - IP67

- DPDT (N.O./N.C.), on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm



Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A	Red	on - off	SP0791	$24.90	$22.40	$19.90
250VAC 3A	Green	on - off	SP0792	$24.90	$22.40	$19.90
250VAC 3A	Blue	on - off	SP0793	$24.90	$22.40	$19.90
250VAC 3A	Red	Momentary	SP0796	$21.90	$19.70	$17.50
250VAC 3A	Green	Momentary	SP0797	$21.90	$19.70	$17.50
250VAC 3A	Blue	Momentary	SP0798	$21.90	$19.70	$17.50

DPDT DUAL COLOUR ILLUMINATED - IP67

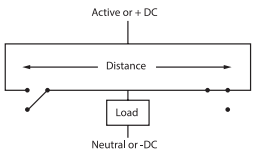
Similar to the illuminated switches shown above, but illuminate red or green depending on the on-off state.
- DPDT (N.O./N.C.), on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm

Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
Momentary	(Red to Green)	SP0787	$24.90	$22.40	$19.90
On-off	(Red to Green)	SP0788	$26.90	$24.20	$21.50

tech talk — Alternative Switching

This circuit enables you to turn a load on or off (typically lighting) from either switch which may be a long way apart. The switches must be single pole, double throw types, minimum (SPDT).

Note! Only a qualified electrician can perform this wiring for 240V. You can do it yourself for low AC or DC voltage wiring.



SPDT ILLUMINATED ARCADE BUTTON

Brightly coloured illuminated pushbutton switches ideal for creating a custom arcade machine, or even use as a large illuminated pushbutton for a control panel. Suits 25mm mounting hole.
- SPDT Microswitch for reliable operation
- All connections are 6.3mm spade
- Includes LED illumination suitable for 12V
- Red SP0662
- Yellow SP0664
- Green SP0665
- Blue SP0666
- White SP0669

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12V	Red	SP0662	$10.90	$9.90	$8.90
12V	Yellow	SP0664	$10.90	$9.90	$8.90
12V	Green	SP0665	$10.90	$9.90	$8.90
12V	Blue	SP0666	$10.90	$9.90	$8.90
12V	White	SP0669	$10.90	$9.90	$8.90

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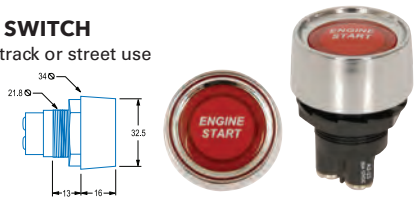
For next day delivery, or Click and Collect, see page 5

Ignition Switches

SPST ENGINE START SWITCH

- Keyless engine start for track or street use
- Illuminated momentary action pushbutton
- Rated for 12VDC 50A
- Mounting hole 22mm
- Contact arrangement SPST N.O.



Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50A	SPST	SP0773	$24.90	$22.40	$19.90

RACING IGNITION SWITCH PANEL - SPST

Complete ignition switch panel ready to install in your car. Push button engine start, missile launch ignition on and indicator light. Finished in faux carbon fibre to complete the look.

- Max depth 38mm
- Contact arrangement SPST N.O. (Both switches)
- 95(W) x 66(H)mm

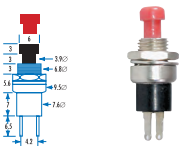
Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A	SPST	SP0774	$48.90	$44.00	$39.10

Momentary Switches

SPST - MINIATURE

125VAC 1 amp rating.

- Momentary action
- Push-on

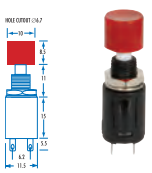


Rating	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 1A	Red	Mom	SP0710	$1.90	$1.70	$1.50
125VAC 1A	Black	Mom	SP0711	$1.90	$1.70	$1.50

SPST

SPST momentary push on switch

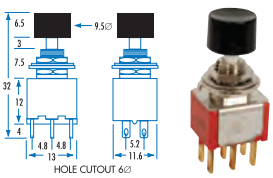
- Rated @ 1.5A 250VAC
- Actuator diameter 10mm
- Cutout 7mm
- Will panel mount on 1/2" centres



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP0702	$4.90	$4.10	$3.70

DPDT

- Rated 3A 125VAC
- 6mm mounting hole
- Momentary Action DPDT
- Black Actuator
- The quality of the switch can be felt when actuated



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 3A	DPDT	SP0714	$9.90	$8.50	$7.50

SPST PANEL MOUNT

Very attractive small round momentary push on switch, with black body and black actuator, rated @ 1.5A 250VAC.

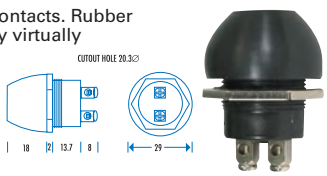
- Contact Arrangement SPST N.O.
- Cutout is 12.5mm
- Solid construction

Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP0700	$4.90	$4.10	$3.70

SPST LARGE WATERPROOF PUSHBUTTON SWITCH

Plastic housing with brass 5A DC contacts. Rubber cap over housing renders assembly virtually waterproof.

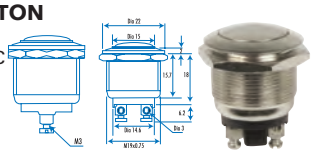
- Requires 22mm mounting hole
- Screw terminals
- Ideal for horn button, starter motor activation, etc
- Contact Arrangement SPST N.O.



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 5A	SPST	SP0732	$5.90	$5.20	$4.70

SPST METAL FINISH PUSHBUTTON

- Silver metal body
- Rated 8A @ 125VAC or 4A @ 250VAC
- Momentary action
- 19mm mounting hole
- Screw terminal termination
- Contact Arrangement SPST N.O.

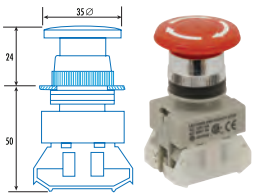


Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 8A	SPST	SP0755	$7.90	$7.20	$6.50

LATCHING EMERGENCY STOP SWITCH

Essential for installations of industrial or lab equipment. Latching actuator with rotating release and normally closed contacts. When the actuator is pushed in, the normally closed contacts open and the switch is latched, ensuring the equipment can't be operated until the switch is intentionally disengaged by rotating the actuator and releasing. It has two independent sets of contacts; normally open and normally closed.

- Configuration: 2 contact sets, normally closed (RED) & normally open (GREEN)
- Actuation: Push off, rotate on
- Contact Rating: 125VAC 6A, 300VAC 3A
- Mounting Hole: 22mm



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 6A	SP0786	$13.90	$12.50	$11.10

PUSH BUTTON SWITCH CAPS

Black caps which press fit over Push Button switches with a shaft diameter of 2.54mm (0.1inch). OD: 5mm, Height: 5mm

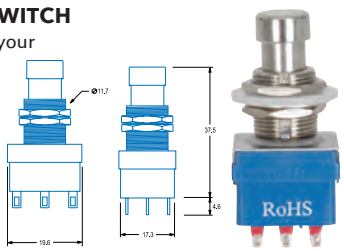
	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 10	SP0596	$5.90	$5.20	$4.70

Foot Switches

3PDT HEAVY DUTY FOOT SWITCH

Being 3 pole means you can wire your stompbox projects to be true bypass. It also has a low profile body so it can be accommodated in shallow enclosures and it has a solid, positive click on/off action. Heavy duty for the rough and tumble world of rock n' roll.

- Push on - push off
- 250VAC 2A rated
- Hole size: 12mm

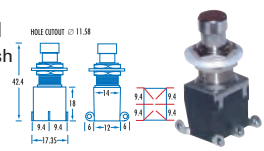


Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	3PDT	SP0766	$15.90	$14.30	$12.70

DPDT HEAVY DUTY FOOT SWITCH

The alternative action switch (push on, push off).

- Contact rating with resistive load 2A@250VAC
- Contact resistance <0.08Ω



Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	DPDT	SP0764	$9.90	$8.50	$7.50

FOOT SWITCH

Momentary action and can be wired to be either push-on or push-off. Rated at 250V 10 amp. The switch has a positive switch feel and an audible "click" when pressed.

- Switch size 80(W) x 80(L) x 30(D)mm
- Colour is grey, cable is 850mm long

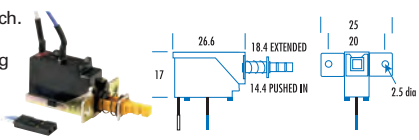
Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP0760	$29.90	$26.90	$23.70

ATX COMPUTER POWER SUPPLY SWITCH

Replacement Power Switch. 250VAC 10A*.

Complete with connecting cable & 2 pin plug.

**Note: rating for switch only (not header socket).*



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP0748	$17.90	$15.90	$14.30

toggle switches:

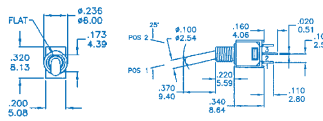
SCANAR

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	SUB MINIATURE	MINIATURE
Electrical Life (Make - And - Break Cycles At Full Load)	30,000	40,000
Contact Resistance (@2 - 4VDC @ 100A)	20mΩ	10mΩ
Insulation Resistance (Any Contact to Body)	1000mΩ	1000mΩ
Dielectric Strength (@ Sea Level)	1000VRMS	1000VRMS
Contact Rating (With Resistive Load)	1A @ 250VAC	2A @ 250VAC
Contact Rating (With Resistive Load)	3A @ 28VAC	5A @ 28VAC

SUB-MINIATURE

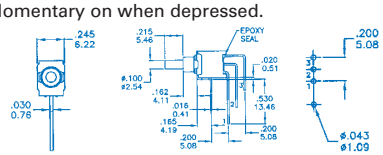
SPDT - SOLDER TAG - THREADED BUSH

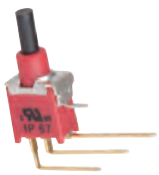


Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST0300	$3.90	$3.10	$2.70

SPDT - HORIZONTAL PCB MOUNT (PUSHBUTTON)

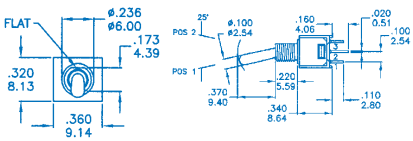
Momentary on when depressed.





Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on-mom)	SP0380	$4.90	$4.10	$3.70

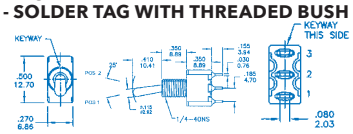
DPDT - SOLDER TAG - THREADED BUSH



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on)	ST0310	$3.90	$3.10	$2.70

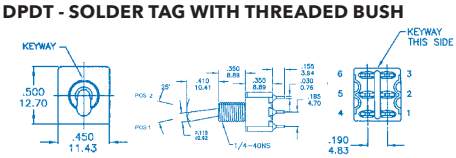
MINIATURE

SPDT - SOLDER TAG WITH THREADED BUSH



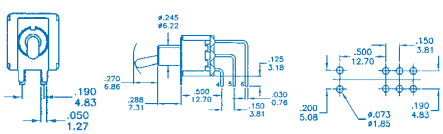
Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST0335	$3.90	$3.10	$2.70
SPDT Centre Off (on-off-on)	ST0336	$4.50	$3.60	$3.30

DPDT - SOLDER TAG WITH THREADED BUSH



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on)	ST0355	$4.50	$3.90	$3.60
DPDT Centre Off (on - off - on)	ST0356	$5.50	$4.70	$4.30
DPDT Mom Centre Off (mom-off-mom)	ST0358	$5.90	$5.20	$4.70
DPDT Mom (on - mom)	ST0357	$5.50	$4.70	$4.30

DPDT - HORIZONTAL PCB MOUNT

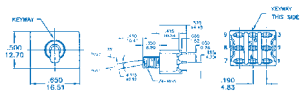


Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT Threaded Bush (on - on)	ST0365	$5.90	$5.20	$4.70

MINIATURE (CONTINUED)

3PDT MINI

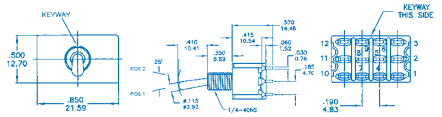
Hole cutout 6mm



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
3PDT (on - on)	ST0505	$9.90	$8.50	$7.50

4PDT MINI

Hole cutout 6mm

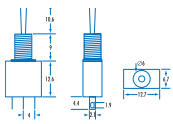


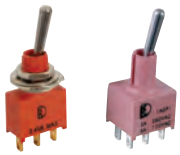
Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
4PDT (on - on)	ST0506	$10.90	$9.50	$8.50

SEALED MINIATURE

Ideal for use in wet or moist areas.

- Rated at 2A, 250VAC
- Splash post IP54 rated

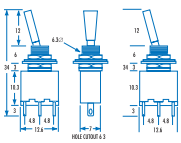




Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST0554	$8.90	$7.90	$6.90
DPDT (on - on)	ST0555	$9.90	$8.50	$7.50

MINIATURE FLATTENED ACTUATOR

ST0546 hole cutout 6.3mm



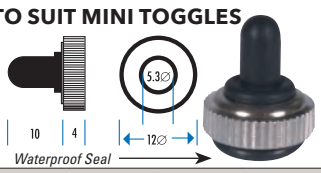
ST0547 hole cutout 6.0mm

Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST0546	$6.90	$5.70	$5.20
DPDT (on - on)	ST0547	$7.90	$7.20	$6.50

RUBBER BOOT WITH SEAL TO SUIT MINI TOGGLES

This waterproof hood replaces the standard mounting nut and has an integrated 'O' ring to seal your equipment from outside moisture.

- Suits our mini toggle switches
- True waterproof seal



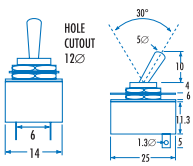
Cat.	Qty 1+	Qty 10+	Qty 25+
ST0594	$2.50	$1.90	$1.70

STANDARD PANEL MOUNT TOGGLE SWITCHES

SPST

Body size 26 x 14mm, clearance 20.5mm.

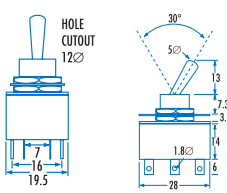
- Mounting hole 12mm
- Rated 2A 250V
- Solder terminals



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A (on - off)	ST0570	$3.50	$2.70	$2.40

DPDT

- Body size 29.5 x 18mm
- Clearance 23mm
- Mounting hole 12mm
- Rated 3A 250V
- Solder terminals



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A (on - off)	ST0572	$3.90	$3.10	$2.70

monthly specials & promotions

Lookout for our monthly promotions in store and online.

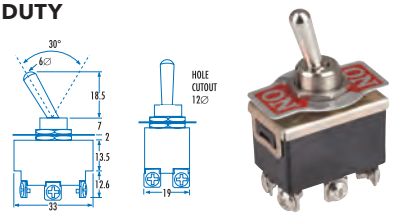
For next day delivery, or Click and Collect, see page 5

Toggle Switches CONTINUED

DPDT - EXTRA HEAVY DUTY

Rated at 6A 250VAC, this switch will handle mains power switching.

- Screw terminals
- 12mm mounting hole

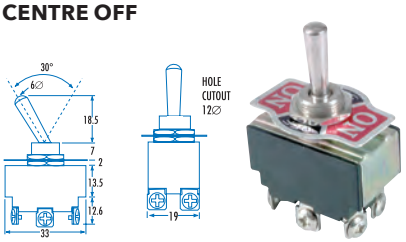


Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A (on - on) DPDT	ST0575	$5.90	$5.20	$4.70

DPDT - HEAVY DUTY CENTRE OFF

Huge 10A 125V rating, chrome toggle with on/off indicator plate.

- DPDT centre off. Body size 35 x 20mm,clearance 26mm, mounting hole 12mm
- Screw terminals. Same physical size as ST0575 above

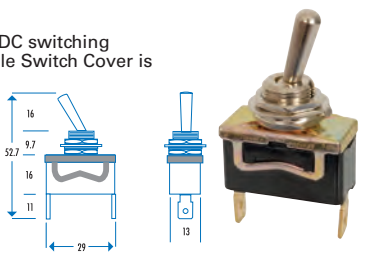


Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 10A (on - off - on) DPDT	ST0576	$5.90	$5.20	$4.70

SPST

Ideal for any high current 12VDC switching application. Our ST0578 Missile Switch Cover is perfectly suited to this switch.

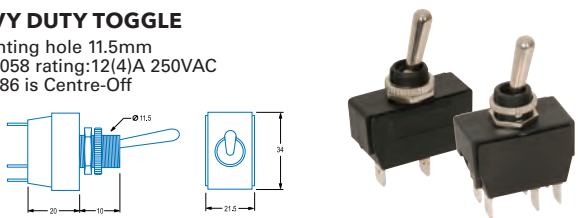
- Body size 29.5 x 17mm
- Mounting hole 12mm
- Rated 20A 12VDC



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A Momentary (off - mom)	ST0577	$7.90	$6.90	$5.90
12VDC 20A Toggle (on - off)	ST0579	$7.90	$7.20	$6.50

HEAVY DUTY TOGGLE

- Mounting hole 11.5mm
- UL61058 rating:12(4)A 250VAC
- ST0586 is Centre-Off



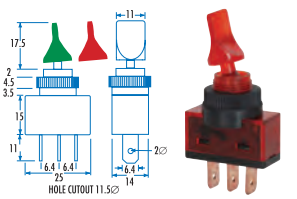
12VDC	277VAC		Cat.	Qty 1+	Qty 10+	Qty 25+
20A	20A	SPST	ST0581	$5.90	$5.20	$4.70
20A	20A	SPST	ST0583	$6.90	$5.70	$5.10
20A	16A	DPDT	ST0585	$9.90	$8.50	$7.50
20A	16A	DPDT - C/Off	ST0586	$9.90	$8.50	$7.50

12V SPST ILLUMINATED DUCKBILL ACTUATOR

Actuator illuminates when switch is on.

Two colours available.

- Rated at 12VDC 10A SPST
- QC tab termination 6.8mm (PT4507)



Brackets Indicate Switch Position	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 10A Red (on - off) SPST	ST0580	$4.90	$4.10	$3.70
12VDC 10A Green (on - off) SPST	ST0582	$4.90	$4.10	$3.70

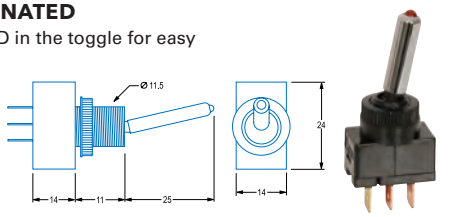
product data

We have so much data and fact sheets we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

12V SPST ILLUMINATED

Illuminated by an LED in the toggle for easy identification.

- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 11.5mm

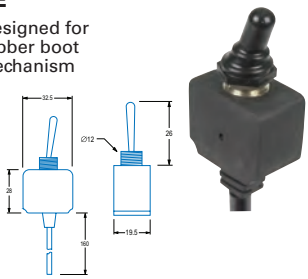


		Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A	SPST	ST0587	$7.30	$6.50	$5.80

SPST 24V 15A SEALED TOGGLE

This large toggle switch is specially designed for marine conditions. A weatherproof rubber boot covers the actuator, and the switch mechanism is encapsulated in rubber. For this reason, 150mm fly leads are attached instead of the usual terminals. Not only limited to marine use, it can also be used as an ultra-durable switch in many applications.

- Ideal for marine or automotive use
- Max volt rating: 24V @ 15 amps



		Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 15A	SPST	ST0574	$15.90	$13.70	$12.30

MISSILE SWITCH PROTECTIVE COVER

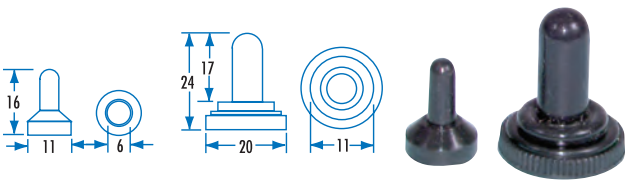
Military style missile switch cover featuring a heavy duty hinged, spring return protective cover. Covers turn switch off when snapped down. Fit any toggle switch with a 12mm mounting hole and appropriate length actuator.

Switch (Cat. St-0579) shown mounted in missile cover (switch not included).

When cover is down, actuator cannot move.

	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	ST0578	$8.90	$7.90	$6.90
Carbon Fibre Style	ST0584	$11.90	$10.70	$9.50

SPLASHPROOF HOODS FOR TOGGLE SWITCHES



These hoods simply screw over the toggle switch to deter ingress of water.

MINIATURE - INCLUDES NUTS FOR BOTH MINI & ULTRA-MINI TOGGLE SWITCHES.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST0590	$2.50	$1.90	$1.70

STANDARD (LARGE)

	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST0592	$3.50	$2.90	$2.60

ARCADE JOYSTICK WITH MICROSWITCHES

Solidly built joystick is ideal for arcade games and emulators or anything that needs digital directional controls.

- SPST Microswitches for reliable operation
- Adjustable restrictor plate with options for 2 way, 4 way and 8 way
- Metal mounting plate and main shaft
- Removable knob for easy mounting

	Cat.	Qty 1+	Qty 10+	Qty 25+
Arcade Joystick	SM1052	$22.90	$20.90	$17.90

Tamper Switches

ALARM TAMPER STYLE

This switch mounts behind a alarm module, bell or other item. If the device is tampered with or pulled from the wall, the alarm will be triggered. SPST. 18mm mounting hole. Contacts close when button depressed.

		Cat.	Qty 1+	Qty 10+	Qty 25+
SPST	Each	LA5066	$3.90	$3.10	$2.70

TAMPER (PIN) STYLE - 2 PACK

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel.

- Bullet connector termination

	Cat.	Qty 1+	Qty 4+	Qty 8+
Pack of 2	LE8775	$7.90	$7.20	$6.50

VAN SLIDING DOOR STYLE

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions.

- Contacts are rated at a massive 20A @ 12V

Rating		Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC 20A	Each	LE8779	$22.90	$20.30	$17.90

METAL TAMPER (PIN) STYLE - 2 PACK

Ideal for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade lug.

- Length (main body): 38mm
- Including plug & lug: 70mm
- Shaft diameter: 7.75mm
- Fascia nut size: 11mm
- Locking nut size: 12mm
- Travel (max): 13.5mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE8776	$9.90	$8.50	$7.50

METAL FASCIA INSET PIN SWITCH - 2 PACK

Inset pin switch with plated metal fascia. Suitable for many cars as a replacement door switch. The sturdy plunger can be cut to required length. Termination via right angle 6.4mm spade lug.

- Fascia: 34.5 x 16.5mm
- Pin: 27(L) x 8(dia)mm
- Overall depth: 51mm
- Travel (max): 8mm
- Depth Behind Fascia: 15mm (not incl. lug & pin)

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE8777	$9.90	$8.50	$7.50

Tim Brade likes to

think. possible.

"Google Assistant is helping people with disabilities stay connected and in control of their lives. I believe that in the next 10 years, smart assistants will be able to read brain waves and perform tasks without the need for voice command."

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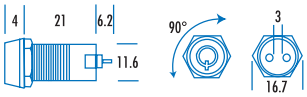
Barrel Locks

SPST BARREL KEY, MINI

Chrome plated SPST mini key switch features spring return momentary operation and is supplied with two mini barrel keys. Requires 28mm mounting depth and a panel cutout of 12mm.

- Contact rating: 0.5A@250VAC / 1A@125VAC

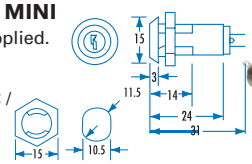


Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 500mA	SPST	SM1034	$11.90	$10.70	$9.50

SPST STANDARD KEY, MINI

Rated at 3 amps. 2 keys supplied.

- Panel cutout 12mm
- Mounting depth 29mm
- Contact rating: 1A 125VAC / 0.5A @250VAC

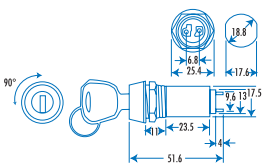


Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 1A	SPST	SM1027	$11.90	$10.70	$9.50

SPST STANDARD SIZE

Solid barrel type.

- 19mm mounting hole
- SPST action
- Supplied with 2 keys
- Rated @ 250V 2A

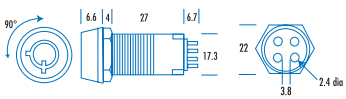


250VAC 2A		Cat.	Qty 1+	Qty 10+	Qty 25+
Random Keys		SM1030	$15.90	$13.70	$12.30
Keyed Alike	Type A	SM1029	$15.90	$13.70	$12.30
Keyed Alike	Type B	SM1031	$15.90	$13.70	$12.30

DPST CHANGE-OVER KEY SWITCH

Uses tubular keys with black plastic inserts to easily identify them. It has 2 positions and the key is removable from both. There are 4 connection terminals, is a change-over type - ie. connection DPST.

- Contact rating: 2A, 250VAC.



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	SM1032	$16.90	$14.90	$13.30

Mercury & Reed Switches

SPST MINI MERCURY

With a robust plastic housing, this switch has a mounting tab - you can screw it down - or use the self adhesive strip supplied. It has a 30cm lead. Switch contacts are open when the device is mounted horizontally. Dimensions: 33(L) x 8(W) x 8.5(D)mm.

	Cat.	Qty 1+	Qty 10+	Qty 25+
SPST	SM1044	$5.50	$4.70	$4.10

SPST MERCURY SWITCH

Glass encapsulated

- 125VAC 3 amp AC. SPST
- Size glass 18(L)mm x 5.5mm dia

Coin not included for size purposes only.

Rating		Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 3A	SPST	SM1035	$3.50	$2.90	$2.60

NC REED SWITCH*

Ideal for burglar alarms.

- Total length: 44mm
- Glass length: 14mm
- Contact rating: 10W
- Switching voltage: 200VDC (max)
- Switching current: 0.5A (max)
- Carrying current: 1.0A (max)

**Normally open, but closed when near magnet*

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
200VDC 500mA	SM1002	$2.50	$2.00	$1.80

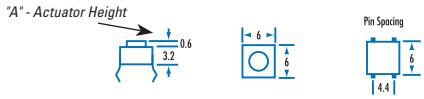
For next day delivery, or Click and Collect, see page 5

Tactile Switches

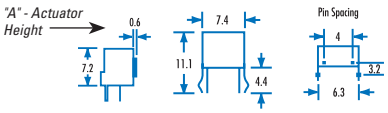
SPST MICRO

SPECIFICATIONS	ALL MODELS
Rating	12VDC 50mA
Operating Temp	-20~70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100mΩ Min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary

VERTICAL MOUNT



RIGHT-ANGLE VERSION



Vertical Mount	Actuator	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP0600	$1.50	$0.99	$0.90
12VDC 50mA	1.4mm	SP0601	$1.50	$0.99	$0.90
12VDC 50mA	3.5mm	SP0602	$1.50	$0.99	$0.90
12VDC 50mA	6.0mm	SP0603	$1.50	$0.99	$0.90

Right angle		Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP0604	$1.50	$1.00	$0.95
12VDC 50mA	1.4mm	SP0605	$1.50	$1.00	$0.95
12VDC 50mA	3.5mm	SP0606	$1.50	$1.00	$0.95
12VDC 50mA	6.0mm	SP0607	$1.50	$1.00	$0.95

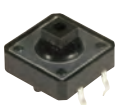
SPST PCB MOUNT

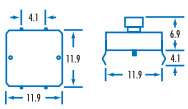
SPECIFICATIONS	BOTH MODELS
Rating	12VDC 50mA
Operating Temperature	20~70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ Min. at 100VDC

Withstand Voltage:
- 250VAC for 1 minute

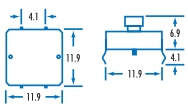
Contact Arrangement:
- SPST N.O
  Momentary action

SQUARE





ROUND

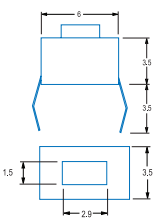


See website for full data sheet.

Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Square	SP0608	$1.50	$1.30	$1.20
12VDC 50mA	Round	SP0609	$1.50	$1.30	$1.20

SPST PCB - 2 PIN

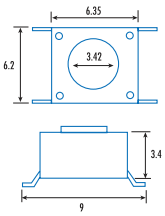
SPECIFICATIONS	SP0611
Rating	12VDC 50mA
Operating Temperature	-16~60°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	2 pin SPST N.O
Action	Momentary
Size	6 x 3.5 x 3.5mm



Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	PCB Mount	SP0611	$1.50	$0.99	$0.90

SPST SMD - PACK OF 10

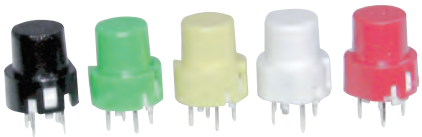
This switch is similar to SP0600 but surface mount.

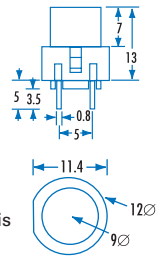


SPECIFICATIONS	SP0610
Size	6x6mm
Height	3.85mm
Contact Arrangement	SPST N.O.
Contact Rating	50mA, 12VDC
Contact Resistance	100mΩ max

Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Pkt 10	SP0610	$16.90	$14.90	$13.30

SPST PCB MOUNT SNAP ACTION - ROUND



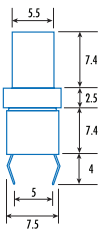


PCB Mount, single pole, momentary. Suitable for keyboards, security systems, etc. Available in 5 colours.
- These switches are normally open SPST. When button is depressed the switch closes, but only while the button is down
- Contact rating 10mA/35VDC. Pin spacing 5mm

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
35VDC 10mA	Red	SP0720	$1.90	$1.50	$1.30
35VDC 10mA	Black	SP0721	$1.90	$1.50	$1.30
35VDC 10mA	Yellow	SP0722	$1.90	$1.50	$1.30
35VDC 10mA	White	SP0723	$1.90	$1.50	$1.30
35VDC 10mA	Green	SP0724	$1.90	$1.50	$1.30

SPST PCB MOUNT WITH LED

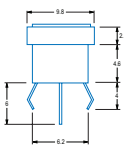
- Vertical
- Metallic look



SPECIFICATIONS	ALL MODELS
Rating	12VDC 50mA
Operating Temperature	-50 ~ 70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4VDC @ 25mA

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Red	SP0612	$5.50	$4.70	$4.10
12VDC 50mA	Green	SP0613	$5.50	$4.70	$4.10
12VDC 50mA	Blue	SP0614	$5.50	$4.70	$4.10

SPST PCB MOUNT - VERTICAL WITH LED



SPECIFICATIONS	BOTH MODELS
Rating	12VDC 50mA
Operating Temperature	-50 ~ 70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4VDC @ 25mA

Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Red	SP0620	$4.90	$4.10	$3.70
12VDC 50mA	Green	SP0621	$4.90	$4.10	$3.70
12VDC 50mA	Blue	SP0622	$4.90	$4.10	$3.70

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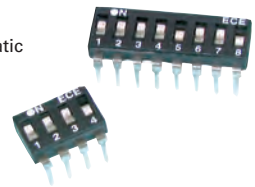
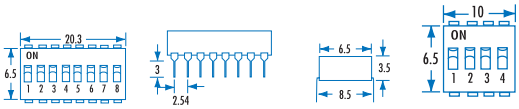
DIP Switches

DIP SWITCHES



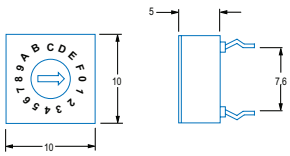
- End stackable
- Moulded 0.3" IC packing outline for automatic insertion
- Smaller sized
- Twin contact design
- Gold plated contact & tin plated terminals
- Switching: 25mA 24VDC
- Non-Switching: 100mA 50VDC
- Contact Resistance: Initial 50mΩ max
- Dielectric Strength: 500VDC min 1 minute



Type	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
2 Way	4 pin DIP	SM1012	$1.90	$1.70	$1.50
3 Way	6 pin DIP	SM1013	$2.50	$1.90	$1.70
4 Way	8 pin DIP (low profile)	SM1020	$2.50	$2.10	$1.90
6 Way	12 pin DIP	SM1015	$2.90	$2.30	$2.10
8 Way	16 pin DIP (low profile)	SM1024	$3.00	$2.60	$2.30
10 Way	20 pin DIP	SM1017	$3.50	$2.90	$2.60
12 Way	24 pin DIP	SM1018	$3.90	$3.10	$2.90

BINARY CODED DIL ROTARY SWITCHES

These tiny switches are designed for PCB use. These pins are moulded in and fully sealed. The body is moulded in UL 94V-0 flame-retardant plastic.



SPECIFICATIONS	BOTH MODELS
Contact Rating	Switching 25mA@24VDC
Non Switching	100mA @50VDC (dry contact switching)
Contact Resistance	100mΩ max
Insulation Resistance	1,000MΩ (min) at 100VDC
Dielectric Strength	250VAC for 1 minute
Temp (Operating)	-25°C to +70°C
Max Rotational Torque Required	500gf-cm
Operational Life	2,000 steps/min, switching
Solderability After flux	230 +/-5°C for 5 +/- 0.5 sec

Binary Coded Hex	Cat.	Qty 1+	Qty 10+	Qty 25+
0 through F output	SR1220	$4.90	$4.30	$3.90

Binary Coded Decimal	Cat.	Qty 1+	Qty 10+	Qty 25+
0 through 9 output	SR1222	$4.90	$4.30	$3.90

Jan le Roux likes to

think. possible.

"Today we use CCTV predominantly for security monitoring, but in the next 5-10 years as the processing capacity on the cameras increases, the analytics and image processing on live video will make cameras become visual sensors that monitors and analyse anything and everything.
Cameras will put the "eye" in IoT"

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SEALED PCB ROTARY SWITCHES

1 YEAR WARRANTY

These switches have a removable ring with tab which can be inserted into the switch several ways to your particular requirements. For example, if you purchased a 1 pole x 12 way (max) switch you could convert it to, say, 1 pole 7 way between stops. They have a standard 1/4," shaft. Panel hole 10mm.
Contact rating 150mA at 240VAC.
Cutout 9.5mm.

1 POLE

Configured from 1 pole 2 position through to 1 pole 12 position.

2 POLE

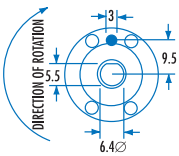
From 2 pole 2 position to 2 pole 6 position

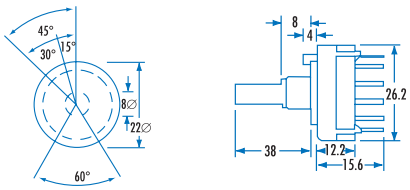
3 POLE

From 3 pole 2 position to 3 pole 4 position

4 POLE

4 pole, 2 and 3 position
- Break before make





Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 150mA	1 pole	SR1210	$4.90	$4.10	$3.70
240VAC 150mA	2 pole	SR1212	$4.90	$4.10	$3.70
240VAC 150mA	3 pole	SR1214	$4.90	$4.10	$3.70
240VAC 150mA	4 pole	SR1216	$4.90	$4.10	$3.70

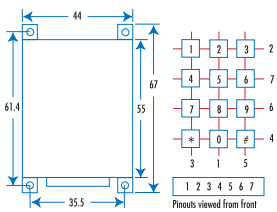
ROTARY ENCODER WITH PUSHBUTTON

Quadrature encoded rotary encoder with pushbutton can be used to provide an intuitive interface to your next project. Similar to the interface found on many 3D Printers. PCB mount with five terminals. Thirty detents/ fifteen pulses per revolution. Encoder has two SPST contacts sharing a common, pushbutton switch is SPST/NO.
- Shaft with flat for grub screw
- Three terminals for rotary encoder
- Two independent terminals for pushbutton
- Two large mechanical lugs for PCB mounting

	Cat.	Qty 1+	Qty 10+	Qty 25+
Rotary Encoder with Pushbutton	SR1230	$10.90	$9.90	$8.90

12 KEY NUMERIC KEYPAD

This telephone style keypad has many uses.
It has 0-9, *, # - 3 x 4 way matrix.



SPECIFICATIONS	SP0770
Contact Rating	20mA, 24VDC
Contact Resistance	200Ω max
Life	1,000,000 cycles per key
Contact	Conductive rubber
Dimensions (Key Face)	44(W) x 54(H) x 5(D)mm
Colour	White keys on black background

Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 20mA	SP0770	$10.90	$9.50	$8.50

attention educators! can we help?

If you're a parent or teacher and would like some practical resources or help, then your local Jaycar Store or Stockist can assist you with a wide range of learning projects for all ages.

For next day delivery, or Click and Collect, see page 5

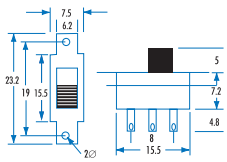
slide switches:

These slide switches have silver plated contacts, contact ratings of 0.3A @ 100V min, 25mΩ contact resistance, 100MΩ plus insulation resistance (at 500VDC) & endure about 10,000 cycles.

DPDT PANEL MOUNT SUB MINIATURE

Break before make (non shorting contacts).

- Size 23(L) x 7(W)mm
- Actuator height 5mm
- Mounting holes 19mm apart
- Screws to mount switch use Cat. HP0390

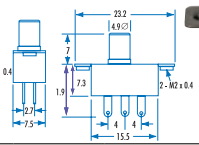


		Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA	DPDT	SS0852	$1.90	$1.50	$1.30

DPDT PANEL MOUNT SUB MINIATURE

(Spun aluminium actuator)

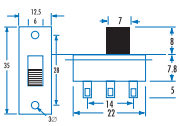
- Panel mount
- Size 23(L) x 7(W)mm
- Actuator height 7mm
- Mounting holes 19mm apart



		Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA	DPDT	SS0812	$1.90	$1.50	$1.30

DPDT PANEL MOUNT MINIATURE

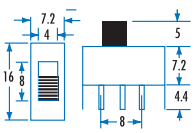
- Size 35(L) x 13(W)mm
- Actuator height 6mm
- Mounting holes 28mm apart
- 3mm diameter holes for screws



		Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA	DPDT	SS0821	$1.50	$1.30	$1.20

DPDT PCB MOUNT SUB MINIATURE

- Size 16(L) x 7.2(W)mm
- Actuator height 5mm



		Cat.	Qty 1+	Qty 10+	Qty 25+
100V 300mA	DPDT	SS0823	$1.90	$1.50	$1.30

SPDT MICRO SLIDE SWITCH

This is the tiniest slide switch we have ever seen, and we're sure it will be a great addition for all those projects that need a small on-off switch. The 0.1" pitch suits protoboard and even breadboards, and allows multiple switches to be stacked side-by-side if needed.

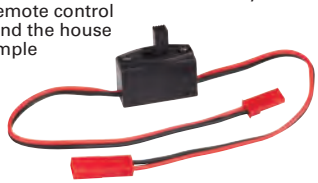
- 0.2A at 24V, 0.5A at 12V
- 6.5mm body height
- 5mm lead length- long enough to bend for right angle mounting
- SPDT (centre common) for changeover contacts
- 11.5mm x 10mm x 2.5mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SS0834	$1.70	$1.50	$1.30

INLINE JST SWITCH KIT

JST switches and connectors provide an unobtrusive solution to power control. They are small so will fit comfortably in the chassis of an RC vehicle. This kit includes a JST switch with a male and female JST connector on each end attached to a 140mm wire. Great for hobby applications such as model trains, remote control helicopters and cars, or simple around the house projects that require discrete and simple switching.

- Includes mounting bracket and screws
- Switch dimensions: 25(L) x 25(H) x 9(D)mm

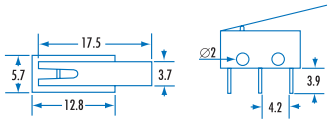


	Cat.	Qty 1+	Qty 10+	Qty 50+
	SS0826	$4.90	$4.30	$3.90

Micro Switches

SPDT SUBMINIATURE

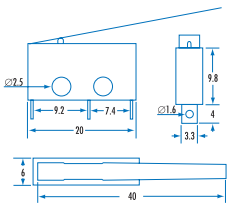
- Actuator length 14mm
- Rated at 125V 3A
- Solder terminals



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125V 3A SPDT On - On	SM1036	$4.90	$4.10	$3.70

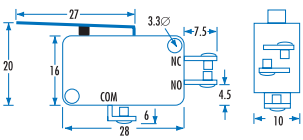
SPDT MINIATURE

- Actuator length 37.5mm
- Rated at 125V 5A (250V 3A)
- Solder terminals



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125V 3A SPDT On - On	SM1038	$5.90	$5.20	$4.70

SPDT STANDARD



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 10A SPDT On - On	SM1040	$4.50	$3.90	$3.60

SPDT STANDARD MICRO SWITCH

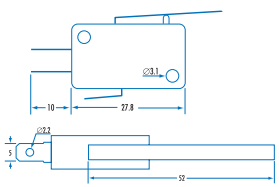
Standard sized micro switch without lever, ideal for those applications where a lever is not needed, and a simple button is all that is required. Suits SP0662, SP0664, SP0665, SP0666 and SP0669 Arcade Pushbuttons.

- SPDT (Changeover) contacts rated at 5A, 240V

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SM1050	$4.00	$3.60	$3.20

SPDT EXTENDED ACTUATOR

- Actuator length 51.3mm
- Rated at 250V 5A
- QC tab termination 6.4mm (PT4607)



Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 5A SPDT On - On	SM1039	$4.50	$3.90	$3.60

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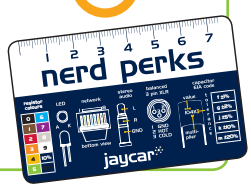
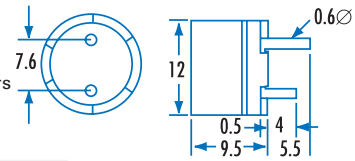


Piezo Buzzers

PCB MOUNT MINI PC PIEZO

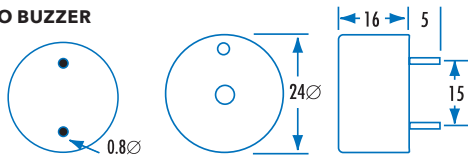
Ideal when you need to fit an alarm in a small place. It has its own built-in drive circuit. It offers low current consumption and it's sealed for DIP soldering & washing.



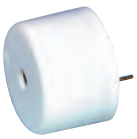
SPECIFICATIONS	AB3459
Operating Voltage	9 - 14V
Rated Voltage	12VDC
Current	30mA
SPL	85dBA/10cm
Frequency	2.3kHz
Weight	2.4 gram

Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
12mm	9.5mm	AB3459	$5.90	$5.20	$4.70

PCB MOUNT PIEZO BUZZER



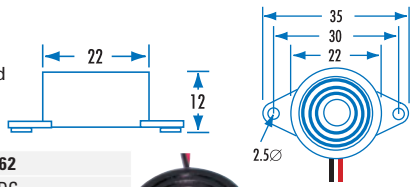
SPECIFICATIONS	AB3458
Operating Voltage	3 - 30VDC
Operating Freq	3.8 kHz
Current Draw	16mA max
SPL	85dB/30cm/12V



Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
24mm	16mm	AB3458	$4.90	$4.10	$3.70

PIEZO BUZZER - MINI

It offers medium to loud sound output, low current consumption and is extremely durable. Supplied with fly leads.



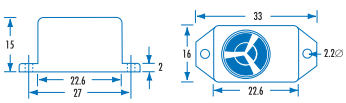
SPECIFICATIONS	AB3462
Operating Voltage	3-16VDC
Rated	12VDC
Freq	3.3kHz
Max Current at 12V	15mA
SPL	90dB

Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
22mm	12mm	AB3462	$4.90	$4.10	$3.70

SURFACE MOUNT BUZZER

Handy solid state buzzer operates between 5-15VDC. Used in many applications.

Note: This is an electro-mechanical buzzer.



SPECIFICATIONS	AB3452
Operating Voltage	5-15VDC
Rated	12VDC
Max Current at 12V	40mA
SPL	79dB/1m

Dia.	Width	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	16mm	15mm	AB3452	$4.90	$4.10	$3.70

p.469 - tech talk on decibels

Jonathan Kubiak likes to

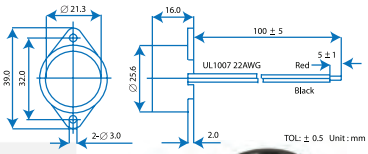
think. possible.

"Wireless charging - built in to all tables/worktops/cars/ etc, even seats so your phone charges in your pocket"

WEATHERPROOF BUZZER 6-14VDC

Designed to withstand exposure to rain when mounted outdoors.

- Material: ABS UL-94 1/16" HB High Heat

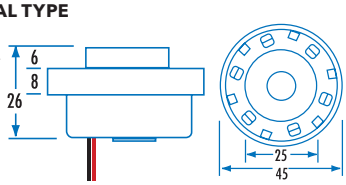


SPECIFICATIONS	AB3466
Operating Voltage	6-14VDC
Rated Voltage	12VDC
Current	35mA @ 12V (max)
SPL	85dB / 1m
Frequency	2.8kHz 500Hz

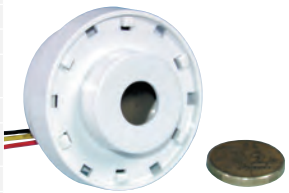
Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
26mm	16mm	AB3466	$21.90	$19.70	$17.30

DUAL SOUND PIEZO INDUSTRIAL TYPE

Similar to SONALERT® earpiercing sound. Non inductive, operates from 1 - 13VDC. Now with both continuous tone and pulsed tone. Red & black for continuous, yellow & black for pulse tone. Ideal for most signalling applications.



SPECIFICATIONS	AB3456
Operating Voltage	1 - 13VDC
Rated Voltage	12VDC
Current	Single tone 35mA, pulse 20mA
Frequency	2.9kHz
SPL	105dB/30cm single, 100dB/30cm pulse
Pulse Rate	2 - 7 pulse/sec
Mounting	1 x 3mm screw

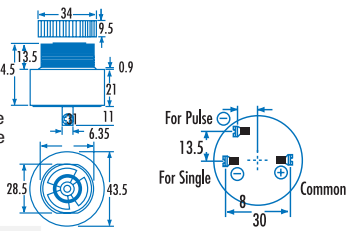


Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
45mm	26mm	AB3456	$10.90	$9.50	$8.50

PIEZO REVERSING ALARM AUTOMOTIVE TYPE

Available with both continuous and pulse tone. These are a heavy duty panel mounted piezo. They are very rigidly made and terminals are via screw down or 6.35mm quick disconnect.

- Similar to SONALERT®



SPECIFICATIONS	AB3464
Operating voltage	4 - 16V
Rated voltage	12V
Max Current @ 12V	25 single, 20 pulse mA
Frequency	2.9kHz
SPL @ 12V	95 single, 90 pulse dB
Pulse Rate @ 12V	0.8 - 1.2 pulse/sec
Mounting Hole	29mm

Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
43.5mm	34.5mm	AB3464	$15.90	$13.70	$12.30

4kHz AUDIO TRANSDUCER

NEW

This electro-acoustic transducer contains no electronics making it a versatile component for electronics projects. Apply an AC voltage input to the wires and it will generate sound pressure waves based on the frequency. Connect the wires to a ciruit input and it will generate an AC voltage when stimulated with a sound pressure wave making an efficient knock or vibration sensor. Supplied in a black plastic casing for easy mounting it can also be deconstructed to suit alternate applications. Without a doubt this is one of our most popular components for a multitude of electronics projects.

- Resonant frequency: 4kHz +/- 0.5kHz
- Electrostatic Capacitance: 25,000pf +/- 30%

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AB3442	$4.50	$4.05	$3.60

ABS instrument cases with purge valves:

3 YEAR WARRANTY

These robust cases come with purge valves for an airtight seal, ribbed ABS construction, stainless steel hinge pins, O-ring seals and very solid catches. The lids are lined with removable egg-shell foam and they come with pluck foam insert with an extra layer of egg-shell foam. Ideal for your camera gear, test, medical or scientific equipment.

HB6389

ABS INSTRUMENT CASE MPV0

Features extremely strong catches with metal pins, it's sealed with a rubber gasket, and inside is pluck foam to shape the internal storage space for a specific object. Lanyard included.

Cat. HB6389

HB6388

ABS INSTRUMENT CASE MPV1

Tiny size for small instruments or test equipment.

Cat. HB6388

HB6381

ABS INSTRUMENT CASE MPV2

Small size for a single SLR camera, DMM or other test equipment.

Cat. HB6381

HB6383

ABS INSTRUMENT CASE MPV4

Medium size to take extra camera and lenses or larger gear such as oscilloscopes or multiple pieces of test equipment.

Cat. HB6383

HB6385

ABS INSTRUMENT CASE MPV7

Large size. This case also has moulded slots to take dividers and two layers of pluck foam. It's also deep enough to take a pro SLR camera body.

Cat. HB6385

HB6387

ABS INSTRUMENT ROLLING CASE MPV8

Ideal for the travelling professional. Like a conventional piece of luggage, it has a retractable handle and built-in wheels to take the load. It's also carry-on size.

Cat. HB6387

	Internal - W x D x H(mm)	External - W x D x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
MPV0	164 x 119 x 40	173 x 125 x 50	HB6389	$31.90	$28.70	$25.50
MPV1	186 x 123 x 75	210 x 135 x 90	HB6388	$48.90	$44.00	$39.10
MPV2	300 x 220 x 90	330 x 280 x 120	HB6381	$89.90	$80.90	$71.90
MPV4	395 x 320 x 117	430 x 380 x 154	HB6383	$119.00	$106.90	$94.90
MPV7	480 x 355 x 186	515 x 415 x 200	HB6385	$159.00	$142.90	$126.90
MPV8	510 x 292 x 175	530 x 355 x 225	HB6387	$229.00	$205.90	$182.90

ABS Instrument Cases

PLASTIC INSTRUMENT CASE

- Modern design case in matt finish surface
- Ideal for desktop instruments
- Top and base is in grey, with dark grey front and rear panels
- Moulded in high impact ABS plastic UL-94-HB
- Includes 4 pcs screws and rubber feet

RoHS

5 YEAR WARRANTY

LIGHT GREY - DARK GREY END PANELS

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
95	158	47	HB5922	$11.90	$10.70	$9.50

HIGH IMPACT ABS INSTRUMENT CASE

This top quality case is ideally suited for instrumentation, telecommunication, or just to make your projects look fabulous

- Removeable ABS front and rear panels
- Top and bottom have a tongue and groove joint and are lightly textured which offers a non-scratch surface & keeps the high quality finish
- Guide slots provided for vertical mounting of PCBs
- Bosses are provided for horizontal mounting of PCBs
- Screws supplied to secure lid to base

RoHS

5 YEAR WARRANTY

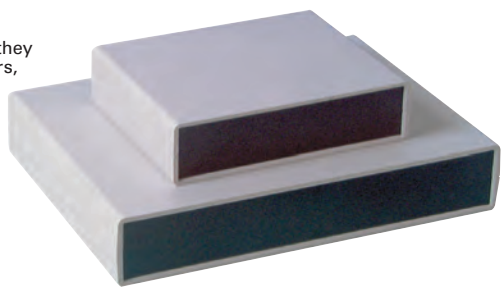
GREY ABS - UL94HB

W(mm)	D(mm)	H(mm)	End panels	Cat.	Qty 1+	Qty 4+	Qty 10+
140	110	35	Black	HB5970	$7.60	$6.80	$6.00

PRO QUALITY ABS INSTRUMENT CASES

Our superb instrument cases will give your projects the professional appearance they deserve. Internal mounting posts enable a wide combination of PCB's transformers, etc., to be accommodated PCB guide rails provided internally allow vertical PCB positioning to several locations

- Removable front and rear panels, attractive textured finish one side and plain the other (Enables direct engraving, silk screen printing etc., to plain side)
- Top and bottom split apart for ease of construction or service. Feet included
- Great for test instruments and other high grade projects



RoHS

5 YEAR WARRANTY

W(mm)	D(mm)	H(mm)		Cat.	Qty 1+	Qty 4+	Qty 10+
200	160	70	Non-vented	HB5912	$19.90	$17.70	$15.70
253	190	82	Vented	HB5910	$29.90	$26.90	$23.90

Tool & Instrument Cases

IPX8 WATERPROOF ABS CASES

1 YEAR WARRANTY

Black waterproof ABS cases for storing or transporting just about anything including Smartphones, radios, wallets, delicate electronic devices and more. They are fully protected from water, dust, and sludge thanks to a gasket seal and powerful latches. The insides are lined with a layer of protective foam to insulate against bumps and knocks. Bring one on your next camping trip and keep those valuables protected.

- Lanyard included
- Waterproof & Shockproof

HB6423 HB6421 HB6425

Size	L(mm)	W(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	182	120	42	HB6421	$24.90	$22.40	$19.90
Medium	182	120	75	HB6423	$31.90	$28.70	$25.50
Large	210	120	90	HB6425	$43.90	$39.50	$35.00

Waterproof Enclosures

IP66 INDUSTRIAL ABS ENCLOSURES

1 YEAR WARRANTY

Gasket seals, stainless steel hardware and IP66 rated for use in industrial, marine and other harsh environments. The closures have a locking catch that engages to positively hold the lid closed until disengaged. Each enclosure includes a 1.8mm galvanised chassis for mounting DIN rail, switchgear, relays or circuit breakers. A size for any application.

- Dimesions:
  HB6404: 200(L) x 200(D) x 130(H)mm
  HB6412: 175(L) x 125(D) x 75(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Opaque Lid	HB6404	$42.90	$38.60	$34.30
Transparent Lid	HB6412	$42.90	$38.60	$34.30

ABS Enclosures

JIFFY BOXES

5 YEAR WARRANTY

RoHS

Manufactured from ABS plastic, these jiffy boxes not only look great, they have been designed to incorporate everything our customers wanted in a constructor's box. Sizes are compliant with industry standards externally and PCB fitting internally.

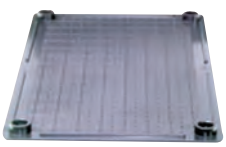
- Impervious, dimple-free finish provides good adhesion for screen printing
- Lids feature a 5mm grid of 'centre punch' type points on the underside for quick & accurate drilling
- Lids also feature a 10mm grid of scribed lines providing an easy and precise guide for cutting or filing cut-outs
- PCB guides in the sides of the box have snap-in locators. Eliminates the need for stand-off hardware when mounting boards horizontally
- Box also has a grid of 'centre punch' type points on the base of the inside
- Supplied with lid fixing screws and safety concealment plugs

SIZE	EXTERNAL DIMENSIONS (mm)	TO FIT PCB (mm)	
		Vertical	Horizontal
UB1	158 x 95 x 53	89 x 48	134 x 88
UB2	197 x 113 x 63	105 x 57	172 x 104
UB3	130 x 68 x 44	63 x 39	107 x 62
UB5	83 x 54 x 31	50 x 27	62 x 49

		Cat.	Qty 1+	Qty 4+	Qty 10+
UB1	Black	HB6011	$5.50	$4.70	$4.10
UB2	Black	HB6012	$8.50	$7.50	$6.50
UB3	Black	HB6013	$4.90	$4.10	$3.70
UB3	Grey	HB6023	$4.90	$4.10	$3.70
UB5	Black	HB6015	$3.90	$3.10	$2.70
UB5	Grey	HB6025	$3.90	$3.10	$2.70
UB5	Clear	HB6005	$3.90	$3.10	$2.70

BLUE (TRANSLUCENT IMAC® LOOK)

		Cat.	Qty 1+	Qty 4+	Qty 10+
UB5	Blue	HB6004	$4.50	$3.60	$3.30



HB6011

Inside of lid features 10mm grid

FLANGED ABS LIDS VERSION OF JIFFY BOXES

5 YEAR WARRANTY

RoHS

These professional enclosures are identical to the UB3 & UB5 jiffy boxes, except they feature flanged lids for bulkhead/surface mounting. The exclusive moulded Jaycar drilling template on the inside of the lid is included, as are the screw hole plugs to hide the lid screws. Refer to the jiffy box information on the left for full detail on the drilling template. Ideal for automotive, security, audio/video plus a wide variety of other applications.

- Lid moulded, drill assist pilot holes on a 5 &10mm pitch
- Four hole plugs to improve finish
- Moulded in ABS plastic
- Exclusive to Jaycar

SIZE	EXTERNAL DIMENSIONS (mm)	TO FIT PCB (mm)	
		VERTICAL	HORIZONTAL
UB3	130 x 68 x 44	63 x 39	107 x 62
UB5	83 x 54 x 31	50 x 27	62 x 49

		Cat.	Qty 1+	Qty 4+	Qty 10+
UB3	Black	HB6014	$5.90	$4.90	$4.40
UB5	Black	HB6016	$3.90	$3.30	$2.90
UB3	Grey	HB6024	$5.90	$4.90	$4.40

For next day delivery, or Click and Collect, see page 5

ABS Enclosures CONTINUED

ABS ENCLOSURES WITH SNAP-IN HINGED LID

Versatile ABS plastic enclosures with self-locking construction that provides easy opening and closing of the enclosure without use of additional tools. The rubber cable entry/exit also means you don't need to get the drill out in order to run cabling from the box.

- Four internal moulded standoffs allow you mount a PCB horizontally
- Available in light grey and black colours, and made from high strength ABS plastic
- Full specifications see website

External dimensions (excluding flange):

HB6431 & HB6433 - 91(L) x 79(W) x 45(H)mm

HB6432 & HB6434 - 91(L) x 122(W) x 69(H)mm

HB6431 HB6433

HB6432 HB6434

1 YEAR WARRANTY

Colour	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Grey	1-Way Cable Entry	HB6431	$7.90	$7.20	$6.50
Black	1-Way Cable Entry	HB6433	$7.90	$7.20	$6.50
Grey	2-Way Cable Entry	HB6432	$10.90	$9.70	$8.90
Black	2-Way Cable Entry	HB6434	$10.90	$9.70	$8.90

DIN RAIL ENCLOSURE 6U WITH CLEAR LID

This enclosure is made of light-grey ABS and has a clip to attach it to a standard DIN rail. We've found it's the perfect size for an Arduino Uno or even a Raspberry Pi, and will make a perfect way to protect and mount projects based around Arduino and Raspberry Pi. Includes a clear lid for a diagnostic display or even some indicator LEDs.

- 6U DIN rail mounting
- Measures 95mm x 106mm x 58mm including clip
- Side knockouts for terminal connections

Colour	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Grey	DIN 6U	HB6273	$22.90	$20.90	$17.90

IP54 HIGH QUALITY POLYSTYRENE ENCLOSURES

This range includes a small flat case that is ideal for remote control transmitters, up to a case that is ideal for bench test equipment, and the best thing is that they are not expensive.

All are supplied with removeable front and rear panels which are light grey in colour, with the rest of the case dark grey. They are moulded in ABS, conform to IP54 and IEC529 and NEMA4 with respect to moisture and dust proof sealing and flame retardant to UL94-VO. Guide slots are provided for vertical mounting of PCBs, and spacers are moulded in for horizontal mounting.

All but the smallest two have M3 screws and brass inserts to hold top and bottom together.

DARK GREY ABS - FLAME RETARDENT TO UL94

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	50	16	HB6030	$5.90	$5.20	$4.70
90	50	24	HB6031	$7.90	$7.20	$6.50
120	60	30	HB6032	$9.90	$8.50	$7.50
150	80	30	HB6034	$15.90	$13.70	$12.30
190	100	40	HB6036	$22.90	$20.30	$17.90

IP65 SEALED ABS ENCLOSURES

- Made with ABS Material
- Moulded in dark grey
- Operating temperature: -20°C to +80°C
- Bosses on internal base allow fixing of PCBs horizontally, or connection of terminals etc
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Some sizes also available with external flange to allow mounting after the box has been sealed
- Designed to IP65 of IEC529 and NEMS 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (Not on HB6120 or HB6134)

5 YEAR WARRANTY

RoHS COMPLIANT

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB6120	$7.50	$6.20	$5.50
64	58	35 Flange	HB6121	$9.50	$8.50	$7.50
115	65	40	HB6122	$10.90	$9.50	$8.50
115	65	40 Flange	HB6123	$11.90	$10.70	$9.50
115	65	55	HB6124	$11.90	$10.70	$9.50
115	65	55 Flange	HB6138	$13.90	$12.50	$11.10
115	90	55	HB6126	$15.90	$13.70	$12.30
115	90	55 Flange	HB6127	$18.90	$16.70	$14.70
171	121	55 Flange	HB6125	$24.90	$22.40	$19.90
171	121	55	HB6128	$24.90	$22.40	$19.90
171	121	80	HB6129	$26.90	$23.90	$21.30
222	146	55	HB6130	$29.90	$26.90	$23.90
222	146	75	HB6132	$34.90	$31.40	$27.90
240	160	90	HB6134	$45.90	$40.90	$36.40

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twitter.com/jaycarnz

youtube.com/user/JaycarVideo

ABS Enclosures CONTINUED

BULKHEAD ABS MOUNT CASES

4 cases in the range. The two smaller sizes have moulded in square cable entries on each end, and holes for screws bolts to mount the case.

- Colour is black
- The two larger cases have a moulded bracket at each end with a screw hole for easy mounting.

HB6065

HB6068

HB6075

The base snaps into place, and there is a round 10mm dia hole in one side for cable entry.

HB6080

The base mounts with 4 self tapping screws.

HB6081

The base mounts to case with 4 self tapping screws included.

HB6082

This case has mounting brackets at each end that are easily removable if you do not wish to mount the case. It has a clear plastic front/top plate that allows you to view the contents of the box. This plate is screwed on from the base/back and cannot easily be removed from the front.

- Colour: Black and Clear

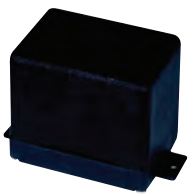
RoHS

5 YEAR WARRANTY

BLACK - HIGH IMPACT ABS

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
65	38	27	HB6065	$3.50	$2.70	$2.40
72	44	28	HB6068	$3.90	$3.10	$2.70
88	69	33	HB6075	$4.50	$3.90	$3.60
112	67	36	HB6080	$6.90	$5.90	$5.50

EXTRA DEEP BULKHEAD ABS MOUNT CASES



W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
72	50	63	HB6081	$9.50	$8.50	$7.50

BULKHEAD MOUNT CASE WITH CLEAR FRONT / TOP

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
120	70	30	HB6082	$13.90	$12.90	$10.90

SNAP FIT ABS ENCLOSURES - BLACK

A range of black ABS enclosures with side flanges allowing wall, or even ceiling mount. Snap fit design locks together to enclose your circuit board or project inside.

- Material: ABS
- Colour: Black
- Wall mount holes: 2 x 4.5mm Dia
- Internal holes: 4 x 2.6mm x 6mm

1 YEAR WARRANTY

HB6006

CAT.	DIMENSIONS (INTERNAL)	DIMENSIONS (EXTERNAL)
HB6006	45.44(W) x 45.84(D) x 18.0(H)mm	70.4(W) x 50.5(D) x 27.0(H)mm
HB6007	65.44(W) x 45.84(D) x 33.0(H)mm	90.4(W) x 50.5(D) x 42.0(H)mm
HB6008	75.44(W) x 76.04(D) x 33.5(H)mm	100.6(W) x 80.7(D) x 43.5(H)mm
HB6009	100.44(W) x 66.04(D) x 41.1(H)mm	127.0(W) x 70.7(D) x 50.5(H)mm

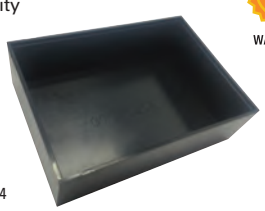
W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
70.4	50.5	27.0	HB6006	$5.30	$4.75	$4.25
90.4	50.5	42.0	HB6007	$6.90	$6.20	$5.50
100.6	80.7	43.5	HB6008	$7.50	$6.90	$5.95
127.0	70.7	50.5	HB6009	$7.60	$6.80	$6.00

ENCLOSURE POTTING BOX

- Protect your electronic assemblies against shock, temperature, humidity and chemicals
- Moulded in high impact ABS plastic
- Black in colour
- Flammability rating: UL-94HB

5 YEAR WARRANTY

RoHS



HB5204

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
39	39	27	HB5202	$1.90	$1.60	$1.40
45	30	25	HB5200	$1.50	$1.00	$0.95
70	50	20	HB5204	$3.90	$3.10	$2.70

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

tech talk Ingress Protection (IP) Rating System

The IP rating system provides a means of classifying a piece of electric or electronic equipment (or sometimes the equipment's enclosure) in terms of its protection against various forms of environmental influence. The protection is from human interference, dust, water, etc. The IP rating is NOT an electrical standard. The rating is a two digit number, and the larger the value of each digit, the greater the protection.

Example: IP67
6 = Dustproof (Totally protected against dust ingress)
7 = Waterproof (Protected against immersion between 15cm and 1m)

IP67

VALUE	1ST DIGIT	2ND DIGIT
0	No protection	No protection
1	Protected against solid objects over 50mm, e.g. hands, large tools	Protected against vertically falling drops of water
2	Protected against solid objects over 12.5mm, e.g. fingers, large tools	Protected against direct sprays of water up to 15° from vertical
3	Protected against solid objects over 2.5mm, e.g. tools, wires...	Protected against direct sprays of water up to 60° from vertical
4	Protected against solid objects over 1mm, e.g. tools, small wires...	Protected against water splashed from any direction: limited ingress permitted.
5	Limited protection against dust ingress (no harmful deposit)	Protected against low pressure water jets from any direction: limited ingress permitted
6	Totally protected against dust ingress	Protected against strong water jets (e.g. ship decks): limited ingress permitted
7	-	Protected against temporary immersion up to 1m for over 30 mins
8	-	Protected against long periods of immersion under pressure. Generally to 3m
9K	-	Protected against high pressure associated with steam cleaning

For next day delivery, or Click and Collect, see page 5

Specialty Plastic Enclosures

SEALED POLYCARBONATE ENCLOSURES - IP65

- Made with Polycarbonate material - moulded in light grey
- Operating temperature: -40 to +125C
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Designed to IP65 of IEC 529 and NEMA 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (not on HB6230)

5 YEAR WARRANTY

RoHS

LIGHT GREY

W (mm)	D (mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
82	80	55	HB6230	$15.90	$13.70	$12.30
115	65	40	HB6212	$16.90	$14.90	$13.30
115	90	55	HB6216	$17.90	$15.90	$14.30
171	121	55	HB6218	$24.90	$22.40	$19.90
171	121	80	HB6224	$28.90	$25.90	$22.70
222	146	55	HB6220	$36.90	$33.20	$29.50

LIGHT GREY WITH CLEAR LID

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
171	121	55	HB6248	$28.90	$25.90	$22.70

LIGHT GREY WITH MOUNTING FLANGE

W (mm)	D (mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB6211	$12.90	$11.30	$10.30
115	65	40	HB6213	$17.90	$15.90	$13.90
115	90	55	HB6217	$22.90	$20.30	$17.90
171	121	55	HB6219	$29.90	$27.00	$23.70
171	121	80	HB6221	$36.90	$33.20	$29.50

LIGHT GREY WITH CLEAR LID WITH MOUNTING FLANGE

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
115	65	40	HB6249	$19.90	$17.70	$15.70
115	90	55	HB6251	$24.90	$22.40	$19.90
115	121	80	HB6223	$39.90	$35.90	$31.90

REMOTE CONTROL CASE

This case is ideal for a TV/VCR remote control. The case includes a battery compartment with sliding cover. It will accept either 2 x AA batteries or a 9V. The terminals for the AA batteries are included. The transmitting end of the box is supplied with 2 plastic panels, one the colour of the box, the other a red perspex for use with Infrared LEDs.

- Includes Battery Contact Kit & Translucent Panel

5 YEAR WARRANTY

RoHS

BLACK - HIGH IMPACT ABS UL94VO

W(mm)	D(mm)	H(mm)	Flame REtard	Cat.	Qty 1+	Qty 10+	Qty 20+
135	70	24	No	HB5610	$11.90	$10.70	$9.50

KEYFOB REMOTE CONTROL CASE

Includes the case and hardware, which consists of pushbutton knobs, battery terminals, LED cover and keyring.

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+
32	50	10	HB5605	$2.60

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Metal Instrument Cases

METAL ENCLOSURES

Aluminium cases finished in grey with black finish steel cover. Ventilated and supplied with rubber feet.

p.301 range of rack mount enclosures

5 YEAR WARRANTY

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	150	61	HB5442	$18.90	$16.90	$14.90
160	184	70	HB5446	$24.90	$22.40	$19.90

PROFESSIONAL BENCH ENCLOSURE

This cabinet has pre-punched ventilation holes, metal thread fastening screws, aluminium prepainted front and rear panels, up to the minute styling and facilities to mount internal hardware without recourse to drilling lids. Apart from this, the enclosure features cabinet heights that comply with standard IEC297 rack heights. Even though it is not a rack cabinet many components (especially transformers) are made to comply to these height dimensions.

- Grey in colour

1 YEAR WARRANTY

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
304	279	88	HB5556	$74.90	$67.40	$59.90

Metal Enclosures - Aluminium

ALUMINIUM ENCLOSURE WITH CLEAR ENDS

This great looking enclosure is sturdy and sleek. The extruded aluminium construction is ideal for both strength and heat-sinking if necessary. Provided with clear end caps to allow hole-less mounting of displays and diagnostic LEDs.

- Measures 115mm x 51mm x 119mm
- Slots for easy PCB mounting
- Clear end caps
- Sealing gaskets

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6294	$39.90	$35.90	$31.90

BLUE ALUMINIUM ENCLOSURE WITH CLEAR ENDS

This great looking enclosure is sturdy and sleek. The extruded aluminium construction is ideal for both strength and heat-sinking if necessary. Provided with clear end caps to allow hole-less mounting of displays and diagnostic LEDs.

- Measures 177mm x 61mm x 89mm
- Slots for easy PCB mounting
- Clear end caps
- Sealing gaskets

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6296	$49.90	$44.90	$39.90

Metal Enclosures - Diecast

ECONOMY DIECAST ALUMINIUM BOXES

5 YEAR WARRANTY

RoHS

- Excellent screening properties for EMI and RFI
- Ideal for projects subject to weather
- Made from 380 Die-cast aluminium alloy (BS1490 LM24)
- Close fitting flanged lids
- Ideal for instruments, meter cases, filter networks etc
- Robust, light weight and easy to machine
- Ideal for projects involving heat as the case itself makes an excellent heatsink

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
51	51	32	HB5060	$9.90	$8.50	$7.50
111	60	30	HB5062	$11.90	$10.70	$9.50
111	60	54	HB5063	$15.90	$13.70	$12.30
119	94	34	HB5067	$17.90	$15.90	$14.30
119	94	57	HB5064	$22.90	$20.30	$17.90

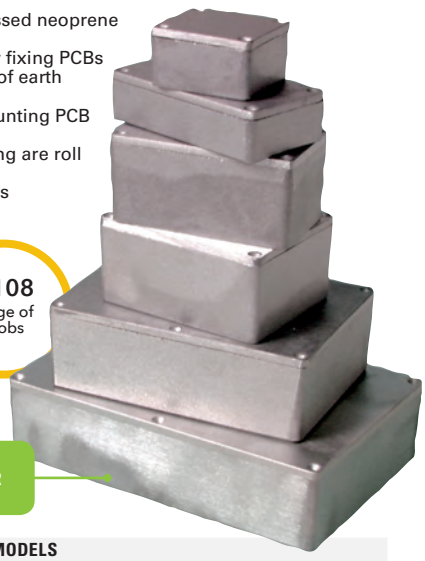
IP65 SEALED DIECAST ALUMINIUM BOXES

5 YEAR WARRANTY

RoHS

This range of boxes compare in quality to those English and Canadian ones that are VERY expensive. These are ideal for housing electronic assemblies, pneumatic, hydraulic & electrical devices for commercial & industrial environments. Provides effective shielding of EMI and RFI.

- Aluminium diecast - resistant to atmospheric and marine corrosion
- Designed to IP65 of IEC529 and NEMA4 (dust and hoseproof)
- Wall mounting holes and lid fixing screws are outside the sealing area
- The lid incorporates a recessed neoprene gasket
- Bosses on internal base for fixing PCBs horizontally or connection of earth grounding, etc
- Internal guide slots for mounting PCB assemblies vertically
- Screw holes for lid mounting are roll threaded
- Captive, recessed lid screws
- Heat rating up to 400°C



p.108 range of knobs

MANUFACTURERS AND BULK USERS - CONTACT JAYCAR FOR BULK PRICING.

SPECIFICATIONS	ALL MODELS
Wall Thickness	3.4 +/-0.1mm
Box And Lid	Aluminium alloy ADC-10 to Japan Industrial Standard (JIS) in natural state
Gasket	Neoprene, resistant to oil and petrol
Lid Screws	M4 stainless steel (non magnetic)
Ground Screw And Washer, Copper Plated.	

W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB5030	$11.90	$10.70	$9.50
115	65	30	HB5036	$17.90	$15.90	$14.30
115	65	55	HB5040	$22.90	$20.30	$17.90
115	90	55	HB5042	$26.90	$23.90	$21.30
171	121	55	HB5046	$41.90	$37.90	$33.40
222	146	55	HB5050	$44.90	$40.40	$35.90

IP65 SEALED DIECAST ALUMINIUM BOXES - FLANGED MOUNT

1 YEAR WARRANTY

Sealed aluminium enclosures for external use are provided with flanges and holes for wall mounting. Lid fixing bolts are located outside the sealing area to ensure better sealing. Made from aluminium alloy ADC-10 (JIS) and provides protection against dust and moisture (IP65). Features racks and guides for mounting a PCB horizontally or vertically.

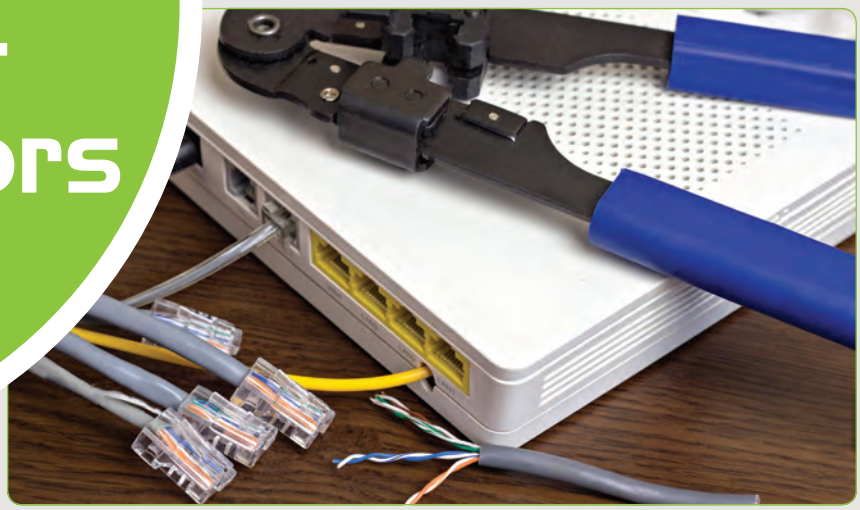
W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	36	30	HB5029	$13.90	$12.50	$11.10
64	58	35	HB5031	$15.90	$13.90	$12.70
115	90	55	HB5044	$32.90	$29.40	$26.40
171	121	55	HB5041	$49.90	$44.90	$39.90

raincheck

If your local Jaycar store has sold out of a currently advertised line will be happy to issue a raincheck*.

***Conditions apply – see page 526 For details**

cables & connectors



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QUALITY MATTERS

We often overlook the hardware that connects our appliances, our speakers, or feed our movie streaming from the router to the TV.

Often considered unsightly, with much effort to conceal them, there's much more than meets the eye to the humble length of cable.

Especially in today's electrically noisy environments, quality makes a difference. That's why you'll find such a huge range of cable, and associated connectors.

There are budget options for those less-sensitive projects, through to the most premium cable and connectors for the discerning audiophile or performance critical application.

We've been selling quality hardware in this space for over 30-years. We know what works, so you can trust our products, unreservedly.

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

speaker cable - by the metre or roll:

Everyone, at some stage of their life, needs to run a length of wiring to set up a speaker or two. Yes, you may be able to cobble some mains fig.8 flex to do the job - but really, let's get serious. The Jaycar range of speaker cable goes from quite modest to gi-normous! At the modest prices shown below, why not just use the right stuff - with polarisation to boot - to get that job done, neatly & efficiently. Oh, and if you find yourself doing speaker wiring jobs a fair bit, you may be better off buying a spool. It's always there when you need it.

LIGHT DUTY FIGURE 8 14/0.14MM OFC

Ideal for Hi-Fi systems, intercoms, etc. Grey with black trace.
• 100m roll, PVC insulation

SPECIFICATIONS	WB1702
Conductor Diameter	0.51mm x 2
Conductor mm2	0.215mm² x 2
AWG	24 x 2
Stranding	(14 x 0.14mm OFC) x 2
Dimensions	1.8mm x 3.6mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1702	$0.60	$48.00	$39.00

EXTRA HEAVY DUTY FIGURE 8 41/0.20MM OFC

Clear with white trace.
• 100m roll, PVC insulation

SPECIFICATIONS	WB1710
Conductor Diameter	1.29mm x 2
Conductor mm2	1.288mm² x 2
AWG	16 x 2
Stranding	(41 x 0.2mm OFC) x 2
Dimensions	3.2mm x 6.4mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1710	$2.50	$180.00	$130.00

PRO AUDIO SPEAKER CABLE 41/0.16MM OFC

Super flexible speaker cable. Separate colour-coded 18AWG red and black conductors in a single outer sheath.
Conductors: 41 x 0.16 OFC.
Jacket OD: 6mm
• 100m roll, PVC insulation

SPECIFICATIONS	WB1754
Conductor Diameter	0.16mm x 2
Conductor mm2	0.824mm² x 2
AWG	18 x 2
Stranding	(41 x 0.16mm OFC) x 2
Dimensions	6mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1754	$2.40	$205.00	$155.00

REGULAR DUTY FIGURE 8 14/0.20MM

Clear with white trace.
• 100m roll, PVC insulation

SPECIFICATIONS	WB1704
Conductor Diameter	0.74mm x 2
Conductor mm2	0.44mm²
AWG	21 x 2
Stranding	(14 x 0.2mm OFC) x 2
Dimensions	2mm x 4mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1704	$0.84	$66.00	$54.00

EXTRA HEAVY DUTY FIGURE 8 79/0.20MM OFC

Exactly half the wire content of the Jumbo cable but still 3 times thicker than the heavy duty cable.
Clear with white trace.
• 100m roll, PVC insulation

SPECIFICATIONS	WB1712
Conductor Diameter	1.8mm x 2
Conductor mm2	2.5mm² x 2
AWG	13 x 2
Stranding	(79 x 0.2mm OFC) x 2
Dimensions	4.0mm x 8.0mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1712	$3.30	$259.00	$215.00

CORE PRO AUDIO SPEAKER CABLE 41/0.16MM OFC

Super flexible for stage & pro applications. Four core OFC colour coded conductors.
Conductors: 41 x 0.16mm OFC.
Jacket OD: 7.5mm
• 100m roll, PVC insulation

SPECIFICATIONS	WB1762
Conductor Diameter	0.16mm x 2
Conductor mm2	0.824mm² x 2
AWG	18 x 4
Stranding	(41 x 0.16mm OFC) x 4
Dimensions	7.5mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1762	$4.70	$399.00	$305.00

MEDIUM DUTY FIGURE 8 19/0.18MM OFC

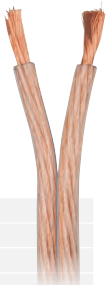
Suited to amplifiers up to 150 watts. 19 x 0.18mm. Black with white trace.
• 100m roll, PVC insulation

SPECIFICATIONS	WB1706
Conductor Diameter	0.8mm x 2
Conductor mm2	0.483mm² x 2
AWG	20 x 2
Stranding	(19 x 0.18mm OFC) x 2
Dimensions	2.6mm x 5.2mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1706	$0.96	$80.00	$72.00

JUMBO SPEAKER CABLE 259/0.12MM OFC

Top quality speaker cable. Figure 8, 259/0.12mm strands each side. Clear - blue trace.
• 100m roll, PVC insulation



SPECIFICATIONS	WB1732
Conductor Diameter	1.92mm x 2
Conductor mm2	2.93mm² x 2
AWG	12/13 x 2
Stranding	(259 x 0.12mm OFC) x 2
Dimensions	4mm x 8mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1732	$4.90	$410.00	$360.00

HEAVY DUTY FIGURE 8 24/0.20MM OFC

Suited for speaker systems above 150 watts. 24/0.2mm. Clear with black trace.
• 100m roll, PVC insulation

SPECIFICATIONS	WB1708
Conductor Diameter	0.97mm x 2
Conductor mm2	0.75mm² x 2
AWG	18/19 x 2
Stranding	(24 x 0.2mm OFC) x 2
Dimensions	2.8mm x 5.6mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1708	$1.50	$115.00	$99.00

FLAT JUMBO SPEAKER CABLE 203/0.12MM OFC

Ideal for car stereo or home wiring under the carpet.
Clear with white trace
• 100m roll, PVC insulation

SPECIFICATIONS	WB1740
Conductor Diameter	1.7mm x 2
Conductor mm2	2.3mm² x 2
AWG	13/14 x 2
Stranding	(203 x 0.12mm OFC) x 2
Dimensions	12.5mm x 8.5mm

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1740	$4.30	$350.00	$288.00

Speaker Cable - 30m Rolls

LIGHT DUTY FIGURE 8 30M ROLL

14/0.14mm Figure 8.
Grey with black trace.
AWG: 24 x 2.
WB1703

HEAVY DUTY FIGURE 8 30M ROLL

24/0.20mm Figure 8.
Clear with black trace.
AWG: 18 x 2.
WB1709

EXTRA HEAVY DUTY FIGURE 8 30M ROLL

79/0.2mm. Figure 8.
Clear with white trace.
AWG: 13 x 2.
WB1713

Cat.	Qty 1+	Qty 4+	Qty 10+
WB1703	$15.90	$14.30	$12.70
WB1709	$39.90	$35.90	$31.90
WB1713	$89.90	$80.90	$71.90

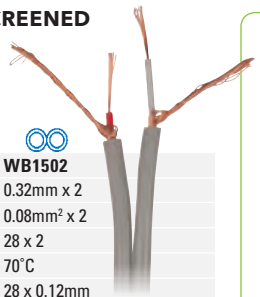
All prices are in New Zealand Dollars

For next day delivery, or Click and Collect, see page 5

Screened Audio & Video Cable

FIGURE 8 TWIN SCREENED

Twin grey PVC covered individually screened conductors. Screens electrically separated.



SPECIFICATIONS	WB1502
Conductor Diameter	0.32mm x 2
Conductor mm2	0.08mm² x 2
AWG	28 x 2
Max. Temp	70˚C
Stranding	28 x 0.12mm
Resistance (20˚C)	0.2245 Ω/m
Dimensions	4mm x 8mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1502	$1.50	$110.00	$80.00

Professional Audio & Video

Triple cable, 2 for audio and the thicker one for video. It is the same cable that's used in our 3 RCA to 3 RCA pre-made cables. 2 Audio Cables.

- Roll Length 50m

"Fantastic quality for home theatre cabling."

- ADAM, RYDALMERE STORE MANAGER

SPECIFICATIONS	TWIN AUDIO CABLES	VIDEO CABLE
Inner Conduct	20 x 0.12mm OFC	24 x 0.12mm OFC
Insulator	1.6mm FPE Red/White	2.5mm FPE White
Screen	40 x 0.12mm OFC	4 x 16 x 0.12mm OFC
AWG	24	

Roll Length	Cat.	Per Metre	1+ Roll	5+ Rolls
50m	WB1554	$4.50	$175.00	$130.00

SINGLE SCREENED AUDIO

Grey PVC covered, light duty cable. Ideal for patch cords, small microphones, amplifier wiring, etc.

SPECIFICATIONS	WB1500
Conductor Diameter	0.32mm x 2
Conductor mm2	0.08mm² x 2
AWG	28 x 2
Max. Temp	70˚C
Stranding	28 x 0.12mm
Resistance (20˚C)	0.2245 Ω/m
Dimensions	3mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1500	$0.66	$50.00	$40.00

PROFESSIONAL S-VIDEO

High Quality cable for video. S-Video uses 4 pin mini DIN plugs. This is the same cable as used in our S-Video video cables.
Ideal for home cinema.

SPECIFICATIONS	WB1556
Conductor Diameter	0.64mm x 2
Conductor mm2	0.32mm² x 2
AWG	22
Max. Temp	70˚C
Stranding	25 x 0.12mm
Resistance (20˚C)	0.055 Ω/m
Dimensions	6 x 2 x 6mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1556	$2.50	$180.00	$160.00

2 CORE ROUND

Twin screened pair (not balanced). Enclosed in a thick wall PVC jacket. 0.127/7 + 0.12/40

SPECIFICATIONS	WB1504
Conductor Diameter	0.32mm x 2
Conductor mm2	0.08mm² x 2
AWG	28 x 2
Max. Temp	70˚C
Stranding	40 x 0.12mm
Resistance (20˚C)	0.002245 Ω/m
Dimensions	3.5mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1504	$1.50	$90.00	$70.00

SINGLE CORE OFC SCREENED

High quality mono audio cable. Braid: 96/0.10 + Alum, Capacitance: 6.8pF/m, Impedance: 65Ω@1m. PEF insulation.

SPECIFICATIONS	WB1508
Conductor Diameter	0.32mm x 2
Conductor mm2	0.08mm² x 2
AWG	22
Max. Temp	60˚C
Stranding	45 x 0.12mm
Resistance (20˚C)	0.0365 Ω/m
Dimensions	6mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1508	$3.30	$279.00	$215.00

4 CORE ROUND

4 conductors each screened and encased in one PVC covering. Ideal for DIN plug and socket wiring. Screens electrically common to all conductors.

SPECIFICATIONS	WB1510
Conductor Diameter	0.32mm x 4
Conductor mm2	0.08mm² x 4
AWG	28 x 4
Max. Temp	70˚C
Stranding	28 x 0.12mm
Resistance (20˚C)	0.2245 Ω/m
Dimensions	4.5mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1510	$1.90	$130.00	$100.00

FIGURE 8 OFC SCREENED AUDIO

High quality audio cable.
As used on our best leads.

SPECIFICATIONS	WB1506
Conductor Diameter	0.32mm x 2
Conductor mm2	0.08mm² x 2
AWG	28
Max. Temp	70˚C
Stranding	7 x 0.12mm
Resistance (20˚C)	0.23 Ω/m
Dimensions	6.5mm
Roll Length	40m

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1506	$5.50	$189.00	$145.00

Professional Microphone Cable

The best quality microphone cable for all P.A. and stage use. Flexible black matte finish PVC low noise cable with tinned copper screening.

2 CORE SCREENED

High quality mic cable for PA, stage. 60/0.08 x 2 core. Conductive PE insulation on conductors provides improved shielding. Cotton filled & tissue wrapped. Braided Shield: 16 x 9/0.10 tinned copper (144/0.10). Outer Jacket 6.0mm diameter.

- Roll Length 100m
- AWG - 18

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1530	$3.10	$249.00	$205.00

4 CORE SCREENED

Conductors: 26/0.10 x 4. Conductive PE insulation on conductors provides improved shielding. Cotton filled & tissue wrapped. Braided shield: 16 x 8/0.10 tinned copper (128/0.10). Outer Jacket: 6.0mm diameter.

- Roll Length 100m
- AWG - 22

Sold by the metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WB1540	$3.30	$265.00	$215.00

p.167 - CCTV cable WB2017

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youtube.com/user/JaycarVideo

find out more in store

Our staff offer friendly and helpful service. We're here to help.

RCA plugs & sockets:

RCA derives from the name Radio Corporation of America. It is sometimes called a Phono connector or Cinch connector. The connector is commonly used for audio and video signals (composite or component).

PLUGS - PLASTIC

Economy style.

PP0240

Jacket Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Blue	PP0238	$0.82	$0.72	$0.65
Green	PP0239	$0.82	$0.72	$0.65
Red	PP0240	$0.82	$0.72	$0.65
Black	PP0242	$0.82	$0.72	$0.65
Yellow	PP0243	$0.82	$0.72	$0.65
White	PP0244	$0.82	$0.72	$0.65

NICKEL PLATED METAL RCA PLUGS WITH CABLE RELIEF SPRING

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP0245	$2.50	$2.00	$1.80

GOLD PLATED METAL RCA PLUGS WITH CABLE RELIEF SPRING

- Up to 7mm cable

PP0236

Jacket Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP0236	$3.90	$3.40	$3.00
Black	PP0237	$3.90	$3.40	$3.00

PREMIUM GOLD PLATED METAL BODY RCA PLUGS

PP0230

Jacket Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP0230	$4.90	$4.10	$3.70
Black	PP0232	$4.90	$4.10	$3.70
Yellow	PP0231	$4.90	$4.10	$3.70
White	PP0233	$4.90	$4.10	$3.70
Blue	PP0234	$4.90	$4.10	$3.70
Green	PP0235	$4.90	$4.10	$3.70

SOCKETS - PLASTIC

Economy style.

PS0250

Jacket Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS0250	$0.72	$0.62	$0.55
Black	PS0252	$0.72	$0.62	$0.55

METAL BODY RCA SOCKETS

With cable protection spring.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS0254	$2.50	$2.00	$1.80

GOLD PLATED METAL RCA SOCKET WITH CABLE RELIEF SPRING

With cable protection spring.

PS0272

Jacket Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS0272	$2.90	$2.60	$2.30
Black	PS0274	$2.90	$2.60	$2.30

RCA PLUG & SOCKET WITH SCREW TERMINALS

RCA connector to screw terminal block.
No specialist tools required.

PA3717

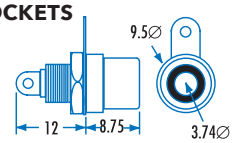
PA3718

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug	PA3717	$6.90	$6.20	$5.50
Socket	PA3718	$6.90	$6.20	$5.50

In addition to the products above, we also have a large range of interconnection leads with RCA plugs or sockets on one end and RCAs - or many other types on the other.

RCA CHASSIS SOCKETS NICKEL PLATED

Non Insulated.
Nickel plated.

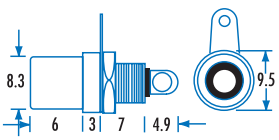


PS0257

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PS0256	$1.50	$0.99	$0.90
Red	PS0257	$1.50	$0.99	$0.90
Yellow	PS0255	$1.50	$0.99	$0.90

RCA CHASSIS SOCKETS - GOLD

Non Insulated.



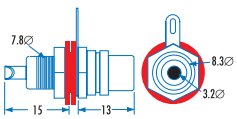
PS0259

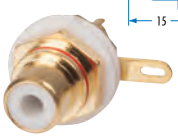
Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PS0258	$2.50	$2.00	$1.80
Red	PS0259	$2.50	$2.00	$1.80
Yellow	PS0260	$2.50	$2.00	$1.80
White	PS0261	$2.50	$2.00	$1.80
Blue	PS0270	$2.50	$2.00	$1.80
Green	PS0271	$2.50	$2.00	$1.80

RCA CHASSIS SOCKETS - GOLD

Requires 9.5mm dia panel hole.

- **INSULATED FROM CHASSIS**



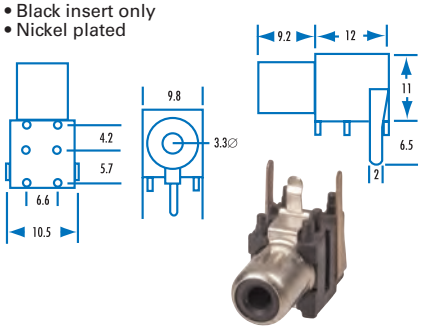


PS0276

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS0276	$4.90	$4.10	$3.70
Black	PS0277	$4.90	$4.10	$3.70
Yellow	PS0275	$4.90	$4.10	$3.70
White	PS0278	$4.90	$4.10	$3.70

RCA RIGHT ANGLE SOCKET

- Black insert only
- Nickel plated



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS0279	$1.90	$1.50	$1.30

attention educators! can we help?

If you're a parent or teacher and would like some practical resources or help, then your local Jaycar Store or Reseller can assist you with a wide range of learning projects for all ages.

RCA Adaptors

RCA SOCKET ADAPTORS

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Female to RCA Female	PA3598	$3.90	$3.10	$2.70
RCA Plug to 2 x RCA Socket	PA3560	$4.90	$4.10	$3.70
1 x RCA Socket to 2 x RCA Socket	PA3562	$4.90	$4.10	$3.70
RCA Socket to RCA Socket	PA3599	$7.90	$7.20	$6.50
3 x RCA to 3 x RCA Socket	PA3564	$9.90	$8.50	$7.50
RCA Socket to BNC Socket	PA3678	$4.90	$4.10	$3.70
Double Adaptor - Gold Plated	PA3570	$7.90	$7.20	$6.50

For a huge range of screened audio cable to suit the products see page 154

PANEL MOUNT - RCA SOCKET TO SOCKET

Gold plated, insulated panel mounted RCA socket to RCA socket adaptors. Allows you to plug straight into the back of the socket.

*** INSULATED FROM MOUNTING PANEL**

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Yellow*	PS0441	$4.80	$4.30	$3.80
Red*	PS0442	$4.80	$4.30	$3.80
Black *	PS0443	$4.50	$3.70	$3.30
White*	PS0446	$4.80	$4.30	$3.80

automatic account:

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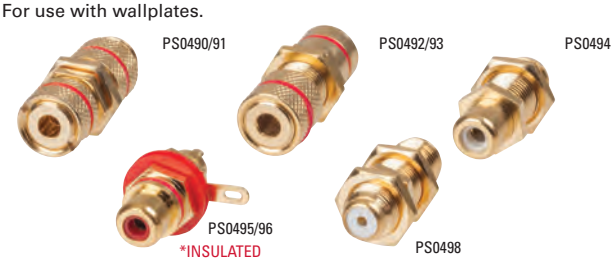
RCA PLUG TO ADAPTORS

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Plug to 3.5mm Mono Socket	PA3508	$2.50	$2.00	$1.80
RCA Male to RCA Male Socket	PA3597	$3.90	$3.10	$2.70
RCA Plug to 6.5mm Mono Socket	PA3510	$2.50	$2.00	$1.80
RCA Plug to PAL TV Socket	PA3676	$4.90	$4.10	$3.70
RCA Male to T -81 Socket	PA3677	$4.50	$3.60	$3.30
RCA Plug to BNC Female Socket	PA3655	$4.90	$4.10	$3.70
RCA Adaptor	PA3566	$5.90	$5.20	$4.70

Gold Plated Connectors

For use with wallplates.

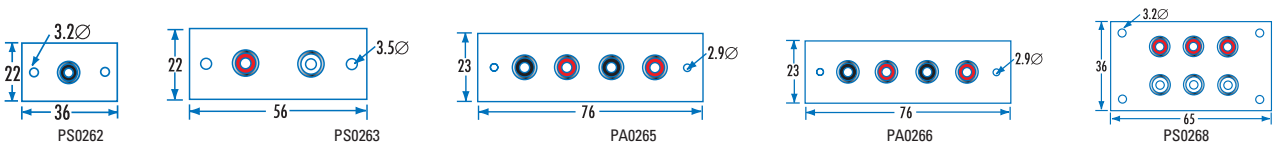


Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Binding Post with Banana - Red	PS0490	$4.90	$4.10	$3.70
Binding Post with Banana - Black	PS0491	$4.90	$4.10	$3.70
Banana Socket Binding Post - Red	PS0492	$3.90	$3.10	$2.70
Banana Socket Binding Post - Black	PS0493	$3.90	$3.10	$2.70
RCA Socket to F-61 Socket	PS0494	$2.90	$2.60	$2.30
RCA Socket - Solder - Blue	PS0489	$2.90	$2.60	$2.30
RCA Socket - Solder - Red*	PS0495	$2.90	$2.60	$2.30
RCA Socket - Solder - Black*	PS0496	$2.90	$2.60	$2.30
RCA Socket - Solder - Yellow	PS0497	$2.90	$2.60	$2.30
RCA Socket - Solder - Green	PS0499	$2.90	$2.60	$2.30
F-61 Socket to F-61 Socket	PS0498	$2.90	$2.60	$2.30

RCA Phenolic Sockets

RCA PHENOLIC SOCKETS

RCA sockets securely riveted to an insulated phenolic panel. Each socket is electrically isolated from the other.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
1 Way	PS0262	$1.35	$1.15	$1.05
2 Way	PS0263	$2.00	$1.80	$1.60
4 Way	PA0265	$3.60	$3.20	$2.80
4 Way Gold Plated	PA0266	$4.80	$4.30	$3.80
6 Way	PS0268	$4.90	$4.10	$3.70

2.5mm Jack Plugs, Sockets & Adaptors

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters: 2.5mm - the smallest size used where space is a premium. Was once used as a mono earphone plug but now has multichannel functions.

2.5MM SUBMINIATURE PLUGS

• Nickel plated

PP0100 PP0103 PP0104 PP0101

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP0100	$0.90	$0.80	$0.70
Stereo	PP0103	$1.50	$1.30	$1.20
Stereo Right Angled	PP0104	$4.90	$4.10	$3.70
4 Contact	PP0101	$3.90	$3.10	$2.70

2.5MM STEREO LINE PLUG - IP67

• Nickel plated

LTW

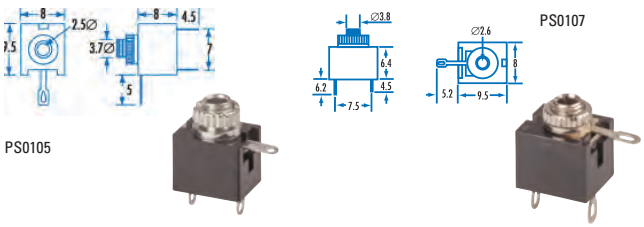
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo Line Plug with 1m Cable	PP0787	$15.90	$13.70	$12.30

2.5MM LINE SOCKET

• Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PS0109	$2.50	$2.00	$1.80

2.5MM CHASSIS SOCKETS



PS0105 PS0107

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS0105	$1.50	$0.99	$0.90
Stereo	PS0107	$2.50	$2.00	$1.80

2.5MM SURFACE MOUNT SOCKETS

• Packet of 10

SMD

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
SMD Stereo Switched	PS0110	$24.90	$21.90	$14.90

2.5MM ADAPTORS

• Nickel plated

PA3502 PA3504 PA3532

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5mm Stereo Plug to 3.5mm Stereo Right Angle Socket	PA3502	$4.90	$4.10	$3.70
2.5mm Mono Plug to 6.5mm Mono Socket	PA3504	$2.50	$2.00	$1.80
2.5mm Stereo Plug to 3.5mm Stereo Socket	PA3532	$4.90	$4.10	$3.70

3.5mm Jack Plugs, Sockets & Adaptors

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters: 3.5mm - the mini plug, which in the stereo version is widely found on headphones used with portable audio such as MP3 players etc. It is also a standard connector used on PC sound cards. The mono version is occasionally used as a DC power connector.

3.5MM MINIATURE PLUGS

• Nickel plated

PP0114 PP0130 PP0136 PP0138

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP0114	$1.20	$0.90	$0.80
Stereo	PP0130	$1.50	$1.30	$1.20
Stereo Right Angled	PP0136	$2.50	$1.90	$1.70
4 Contact	PP0138	$5.90	$5.20	$4.70

3.5MM METAL PLUGS WITH CABLE PROTECTION SPRING

• Nickel plated

PP0116 PP0135 PP0131

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP0116	$1.90	$1.50	$1.30
Stereo	PP0135	$2.50	$1.90	$1.70
Stereo Gold Plated	PP0131	$2.90	$2.60	$2.30

3.5MM SLIMLINE - GOLD PLUGS

• Gold plated over brass

PP0132 PP0134

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PP0132	$4.80	$4.30	$3.80
4 Pole	PP0134	$6.90	$6.20	$5.50

3.5MM LINE SOCKETS

• Nickel plated

PS0126 PS0134 PS0139

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS0126	$1.90	$1.50	$1.30
Stereo	PS0134	$2.50	$2.00	$1.80
4 Contact	PS0139	$6.90	$6.20	$5.50

Lucas Kapobassis likes to

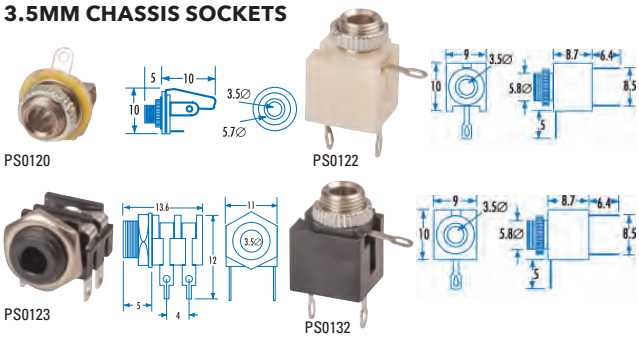
think. possible.

"The Raspberry Pi is a very popular, easily accessible single board computer. In the next 5-10 years, I think it will evolve with a smaller form-factor, a more powerful yet smaller processor and more modern USB, Wifi, and Bluetooth technologies. The Raspberry Pi is the next generation of computing."

For next day delivery, or Click and Collect, see page 5

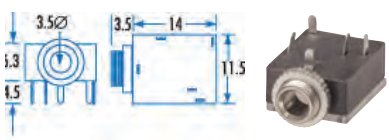
3.5mm Jack Plugs, Sockets & Adaptors CONTINUED

3.5MM CHASSIS SOCKETS



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open	PS0120	$1.90	$1.50	$1.30
Mono Enclosed	PS0122	$1.50	$0.99	$0.90
Mono Insulated	PS0123	$2.90	$2.60	$2.30
Stereo	PS0132	$1.70	$1.50	$1.30

3.5MM PCB SOCKET



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
PCB Stereo Switched	PS0133	$1.90	$1.70	$1.50

3.5MM ADAPTORS - STEREO

• Nickel plated

Stereo 3.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to 6.5mm Stereo Socket	PA3586	$3.90	$3.10	$2.70
Plug to 3.5mm Stereo R/A Socket	PA3503	$4.90	$4.10	$3.70
Plug to 2.5mm Stereo Socket	PA3536	$4.90	$4.10	$3.70
Plug to 2 x 3.5mm Stereo Sockets	PA3582	$4.90	$4.10	$3.70
Plug to 2 x RCA Sockets	PA3580	$4.90	$4.10	$3.70
Socket to 2 x 3.5mm Mono Plug	PA3581	$6.90	$6.20	$5.50

3.5MM STEREO SOCKET TO 3.5MM STEREO SOCKET

• Nickel plated

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo Socket	PA3583	$2.50	$2.00	$1.80

3.5MM STEREO SOCKET TO 2 X RCA SOCKETS ADAPTOR

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo Socket	PA3585	$3.50	$2.70	$2.30

monthly specials & promotions

Lookout for our monthly promotions in store and online.

3.5MM ADAPTORS - MONO

• Nickel plated

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to RCA Socket	PA3500	$2.50	$2.00	$1.80
Plug to 6.5mm Mono Socket	PA3506	$2.50	$2.00	$1.80
Plug 3.5mm Stereo Socket	PA3584	$2.50	$2.00	$1.80
Plug 6.5mm Stereo Socket	PA3594	$2.50	$2.00	$1.80
Plug PAL (75 ohm) Socket	PA3657	$4.90	$4.10	$3.70

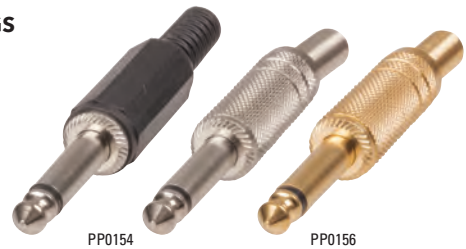
6.5mm Jack Plugs, Sockets & Adaptors

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters: 6.5mm - the largest size; the mono version is used on guitar & microphone leads, while the stereo version is often used on Hi-Fi headphones. The 6.5mm (or 1/4" phone plug) was originally used for manual telephone switchboards particularly the 'Sylvester' type.

6.5MM 1/4" PLUGS

PLUGS - LINE - MONO

• Nickel plated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono - Plastic	PP0150	$1.50	$1.00	$0.95
Mono - Metal	PP0154	$2.50	$1.90	$1.70
Mono - Gold	PP0156	$4.80	$4.30	$3.80
Mono - Red	PP0151	$5.90	$5.20	$4.70
Mono - Black	PP0152	$5.90	$5.20	$4.70

6.5MM 1/4" PLUGS

PLUGS - LINE - STEREO

• Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo - Plastic	PP0170	$2.00	$1.80	$1.60
Stereo - Metal	PP0174	$2.90	$2.60	$2.30
Stereo - Gold	PP0175	$6.50	$5.85	$5.20
Stereo - Red	PP0177	$5.90	$5.20	$4.70
Stereo - Black	PP0178	$5.90	$5.20	$4.70

6.5MM PRO METAL PLUGS

Made especially for the rigours of the road or anywhere where a heavy duty, tough 6.5mm plug is called upon. The mono plugs feature blue identification rings, whereas the stereo plugs have black rings. This is particularly handy if you have a combination of stereo and mono plugs on the one mixing desk or patch bay.

• Nickel plated over brass

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Metal - Pro	PP0157	$7.50	$6.70	$5.90
Stereo Metal - Pro	PP0179	$7.90	$6.90	$6.20

6.5mm Jack Sockets & Adaptors

6.5MM 1/4" LINE SOCKETS

PS0166 PS0194

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS0166	$1.90	$1.70	$1.50
Stereo	PS0194	$2.50	$2.00	$1.80

6.5MM 1/4" FLUSH PANEL SOCKET

Ever tried to mount a 6.5mm socket in a wooden box? It was impossible! Now it's easy with our unique plastic mounting aid.

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Socket Mounting Cup	HS8025	$3.10	$2.80	$2.50

6.5MM ADAPTORS

- Nickel plated

PA3588

PA3592

PA3534

PA3590

PA3530

PA 3591

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Mono Socket to 6.5mm Mono Plug	PA3588	$2.50	$2.00	$1.80
Mono Plug to RCA Socket	PA3592	$2.50	$2.00	$1.80
Mono Plug to 2 x 6.5mm Mono Socket	PA3534	$4.90	$4.10	$3.70
Stereo Plug 3.5mm Stereo Socket	PA3590	$2.50	$2.00	$1.80
Stereo Plug to 2 x 6.5mm Stereo Socket	PA3530	$4.90	$4.10	$3.70
Stereo Socket to 6.5mm Stereo Socket	PA3591	$4.90	$4.10	$3.70

6.5MM RIGHT ANGLE PLUGS

Super tough metal construction plug for harsh environments & musos who want the best.

- Use with 6mm O.D. cable
- Strain relief provided
- Nickel plated

PP0158

PP0176

PP0159

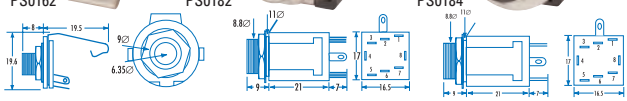
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Pro Right Angle	PP0159	$5.90	$5.20	$4.70
Right Angle	PP0158	$2.50	$2.00	$1.80
Stereo Right Angle	PP0176	$3.00	$2.60	$2.30

6.5MM 1/4" CHASSIS SOCKETS

PS0162

PS0182

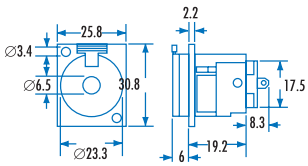
PS0184



PROFESSIONAL LOCKING CHASSIS JACK

Metal shell, mates with all mono and stereo 6.5mm (1/4") phono plugs. Plug locking feature keeps plug in the socket.

PS0196



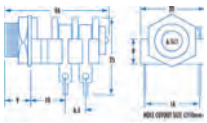
NEUTRIK

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open Unswitched Insulated	PS0162	$2.50	$2.00	$1.80
Mono & Stereo	PS0196	$24.90	$22.40	$19.90
Stereo Switched DPDT	PS0182	$3.90	$3.10	$2.70
Stereo Insulated Switched	PS0184	$4.50	$3.60	$3.30

6.5MM PCB / CHASSIS SOCKETS

MONO INSULATED

- ABS Body



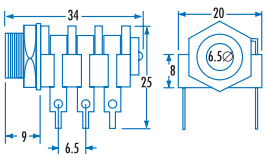
Closed when plug is NOT inserted

PS0160

INSULATED DPST SWITCHED - STEREO

Works OK in mono.

- ABS Body



PS0190

INSULATED UNSWITCHED - STEREO

Works OK in mono.

- ABS Body

PS0192

HIGH QUALITY - STEREO

- Switching DPST
- Black plastic front insert
- Glossy chrome-finish nut
- Stereo, but can be used for mono
- Minimum Life: 10,000 insert/ withdraw cycles
- Contact Rating: 2.5A at 48VD
- ABS Body

PS0195

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Switched	PS0160	$2.90	$2.60	$2.30
Stereo Insulated DPST Switched	PS0190	$3.90	$3.10	$2.70
Stereo Insulated Unswitched	PS0192	$3.50	$2.90	$2.60
Stereo	PS0195	$7.90	$7.20	$6.50

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For next day delivery, or Click and Collect, see page 5

Banana Plugs

Banana plugs & sockets originally started life on test equipment. Their versatility quickly saw them as output connectors for power supplies. When they were integrated with binding posts they quickly saw use as speaker connectors. Now they are everywhere.

BANANA PLUGS

PLUGS - PIGGY BACK

With this quality piggy back style, another banana plug can be inserted into the back of the plug.

PP0390

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP0390	$2.50	$2.00	$1.80
Black	PP0391	$2.50	$2.00	$1.80
Green	PP0381	$2.50	$2.00	$1.80
Blue	PP0382	$2.50	$2.00	$1.80
Yellow	PP0383	$2.50	$2.00	$1.80

Piggy back insulating shroud type. Works with our PS0420-24 series.

PP0385

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP0385	$2.90	$2.60	$2.30
Black	PP0386	$2.90	$2.60	$2.30
Green	PP0387	$2.90	$2.60	$2.30
Blue	PP0388	$2.90	$2.60	$2.30
Yellow	PP0389	$2.90	$2.60	$2.30

PLUGS

PP0400/02

PP0394/95

Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	4mm	PP0400	$1.50	$0.99	$0.90
Black	4mm	PP0402	$1.50	$0.99	$0.90
Red	Right Angle	PP0394	$2.90	$2.30	$2.10
Black	Right Angle	PP0395	$2.90	$2.30	$2.10

PLUGS - METAL GOLD PLATED

Designed for monster type speaker cable.
- Side entry hole, with finger screw locking action
- Hole will accept another banana plug or thick cable

PLUGS - METAL GOLD PLATED & LOCKING

These lock into the socket, and cannot be easily removed
- Gold plated

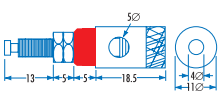
PP0426/27

PP0417

Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red		PP0426	$5.90	$5.20	$4.70
Black		PP0427	$5.90	$5.20	$4.70
Red	Locking	PP0416	$9.90	$8.50	$7.50
Black	Locking	PP0417	$9.90	$8.50	$7.50

SPEAKER BOX MOUNT

These have a hole entry on the side which will accept monster type speaker cable or a banana plug. Thread is 19mm long.



PP0434

Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP0434	$5.90	$5.20	$4.70
Black	PP0435	$5.90	$5.20	$4.70

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

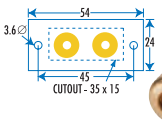
Banana Sockets

4MM BANANA SOCKET TO ALLIGATOR CLIP

	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PA3668	$3.50	$2.90	$2.60
Black	PA3669	$3.50	$2.90	$2.60

BANANA / SCREW TYPE

2 Way Gold Terminals. Top quality speaker terminal with gold banana sockets which also have a huge hole (6mm) to accept Monster type speaker cable.
- Supplied with gasket
- Dimensions: 54(W) x 24(H)mm



Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Screw	PT3008	$11.90	$10.70	$9.50

BANANA SOCKET / BINDING POST WALLPLATES

- Standard power point size
- Gold plated

PT0470

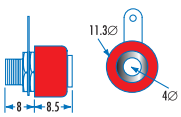
PT0472

PT0474

Type	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	PT0470	$15.90	$14.30	$12.70
4 Way	PT0472	$21.90	$19.70	$17.30
8 Way	PT0474	$29.90	$26.90	$23.70

BANANA CHASSIS SOCKETS

PS0406



Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
Red - 4mm	PS0406	$0.78	$0.70	$0.60
Black - 4mm	PS0408	$0.78	$0.70	$0.60

FULLY INSULATED

Works with our PP0385-89 series.

Fully Insulated	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS0420	$2.90	$2.30	$2.10
Black	PS0421	$2.90	$2.30	$2.10
Green	PS0422	$2.90	$2.30	$2.10
Blue	PS0423	$2.90	$2.30	$2.10
Yellow	PS0424	$2.90	$2.30	$2.10

HEAVY DUTY ENCLOSED

Includes a plastic cover to reduce the risk of shorting. Grub screws for internal wire connection. Hole size is 12mm. Cable hole 5mm dia. Available in red or black.
- Gold plated

PP0436 PP0437

Fully Insulated Gold	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP0436	$8.50	$7.60	$6.80
Black	PP0437	$8.50	$7.60	$6.80

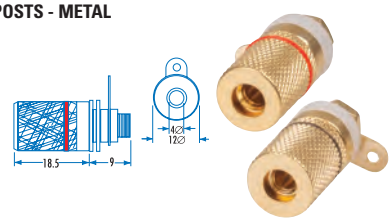
find out more in store

Our staff offer friendly and helpful service. We're here to help.

Banana Binding Posts

BANANA SOCKETS / BINDING POSTS - METAL

Will accept a banana plug in the end and monster type cable or banana plug in the side. Designed for mounting on the back of amplifiers as mounting thread is only 6mm long.



Amplifier Mount	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PT0430	$5.90	$5.20	$4.70
Black	PT0431	$5.90	$5.20	$4.70

DUAL

- Insulated cable entry
- Post spacing 19mm

PT0457

50 AMP JUMBO

- 12mm hole size
- Overall dimensions: 58(D) x 20(Dia.)mm

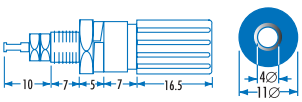
PT0465

BINDING POSTS

STANDARD

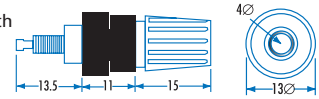
Incorporates a banana socket.

PT0450



PREMIUM

Super quality with metal thread.



PT0460

Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Blue	Standard	PT0450	$1.90	$1.70	$1.50
Yellow	Standard	PT0451	$1.90	$1.70	$1.50
White	Standard	PT0452	$1.90	$1.70	$1.50
Red	Standard	PT0453	$1.90	$1.70	$1.50
Black	Standard	PT0454	$1.90	$1.70	$1.50
Green	Standard	PT0455	$1.90	$1.70	$1.50
Red	Premium	PT0460	$3.60	$3.20	$2.80
Black	Premium	PT0461	$3.60	$3.20	$2.80
Green	Premium	PT0462	$3.30	$2.95	$2.60
Red/ Black	Dual	PT0457	$8.90	$7.90	$6.90
Red	50A Jumbo	PT0465	$7.90	$7.10	$6.30
Black	50A Jumbo	PT0466	$7.90	$7.10	$6.30

Andrew Peninton likes to

think. possible.

"Virtual reality, I believe this we evolve in giant steps in the coming years. Hopefully to a stage where you can virtually travel the world, even climb Mount Everest. I also hope it will extend into CAD, so that you can design in virtual 3D and hold and test your designs."

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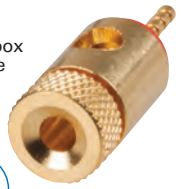
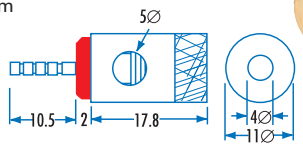
Speaker Push/ Screw Terminals

JUMBO SPEAKER CABLE TERMINALS

Can't fit your large speaker cable into your speaker box spring terminals? Problem solved!! Simply terminate the thick cable into these gold connectors and the 1.5mm dia. pin easily fits into speaker rear terminals.

- Cable entry is 6mm
- Gold plated





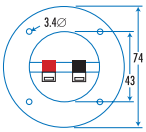
Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Red	PT3020	$3.50	$2.70	$2.40
Black	PT3021	$3.50	$2.70	$2.40

LARGE ROUND SPEAKER TERMINAL

Up to 16 AWG cable.

- Cutout 50mm

PT3004



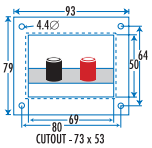
PT3004

SPEAKER BOX TERMINAL

Ideal if you are running large size speaker cable to your speakers.

- Dimensions 92(W)x79(H) mm

PT3006



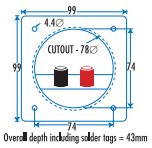
PT3006

2 WAY GOLD TERMINALS ON A PLATE

Top quality speaker terminal.

- Plate size 99 x 99mm
- Hole cutout is round - diameter 78mm

PT3012



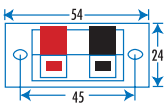
PT3012

2 WAY - UP TO 16AWG

Up to 16AWG cable.

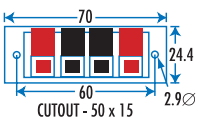
- Mounting holes: 45mm apart
- Dimensions: 54(L) x 24(W)mm

PT3000



PT3000

4 WAY - UP TO 16AWG



PT3002

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Way Round	PT3004	$3.90	$3.10	$2.70
Speaker Box	PT3006	$8.90	$7.90	$6.90
2 Way Gold / Plate	PT3012	$15.90	$14.30	$12.70
2 Way	PT3000	$2.50	$1.80	$1.60
4 Way	PT3002	$3.90	$3.10	$2.70

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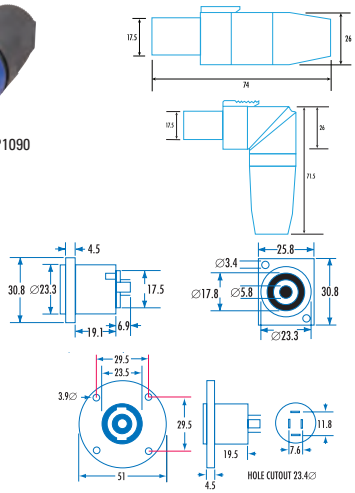
For next day delivery, or Click and Collect, see page 5

"Speakon" Loudspeaker Plugs & Sockets

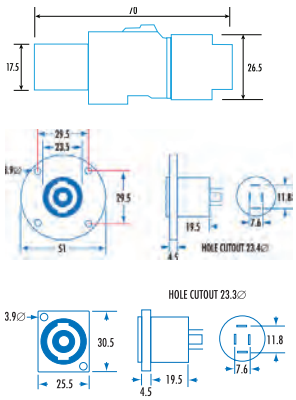
NEUTRIK Heavy duty, fail-safe speaker connectors

- 4 pole with Locking ring
- Solderless termination
- PS1094 & PS1092 hole cutout 24mm
- 30 amp continuous current
- The standard in high power PA speaker connections



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker Connector 4 Pole	PP1090	$17.90	$15.90	$14.30
Inline Speaker Plug	PP1091	$24.90	$22.40	$19.90
Round Speaker Bin Chassis Mount Plastic	PS1094	$15.90	$14.30	$12.70
Square Chassis Mount Plastic	PS1092	$15.90	$14.30	$12.70

Audio - Economy Range Plugs, Sockets & Leads



SOANAR

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker 4 Pole Connector	PP1080	$15.90	$13.70	$12.30
Round Speaker	PS1084	$11.90	$10.70	$9.50
Square Speaker Chassis Socket	PS1082	$11.90	$10.70	$9.50

SPEAKON LEAD EXTENDER

Connects Speakon leads together to extend cable runs as far as you need to.

- ABS construction

Cat.	Qty 1+	Qty 4+	Qty 10+
PA3689	$15.90	$13.70	$12.30

Related Product:

SPEAKON AUDIO LEADS

Excellent ready-made cable assemblies for your PA and sound reinforcement applications.

5m WA7100 P. 472
10m WA7102 P. 472

XLR - Amphenol Plugs & Sockets

Typically used for balanced connections such as professional microphones; these connectors are 3 pin & lock on to the socket. The confusion over whether pin 2 or 3 is hot has only relatively recently been resolved. The Standard has been defined by the Audio Engineering Society which we have outlined on the bottom of the this page. Amphenol® have taken over the genuine Cannon brand.

LINE - 3 PIN

- Solder type
- Diecast metal shell

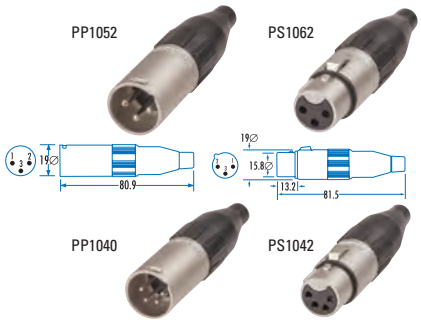
Amphenol

LINE - 4 PIN

Cannon/ Amphenol Silver

- Diecast metal shell
- Nickel plated

Amphenol



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1052	$9.90	$8.50	$7.50
3 Pin - Female	PS1062	$10.90	$9.50	$8.50
4 Pin - Male	PP1040	$15.90	$14.30	$12.70
4 Pin - Female	PS1042	$19.90	$17.90	$15.90

AMPHENOL LTW INLINE SCREW-IN CABLE JOINER 3P 6.6-8.5MM IP68

Amphenol

Newly developed Cable Joiner from Amphenol LTW, UL FICX series which is compliant with UL2238 standard. The UL FICX is designed with screw terminal termination, providing quick and practical field assembly. It is IP68 rated and equipped with UV resistant materials, that can meet the needs in LED lighting, CCTV security, Solar and Marine applications. Great for environments where reliable interconnections are required. Easy grip design.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT4660	$14.90	$13.90	$11.90

CHASSIS MOUNT D-SERIES XLR SOCKETS

High quality Amphenol brand XLR 3 pole chassis mount sockets. Can be front or rear mounted in P or D series panels.

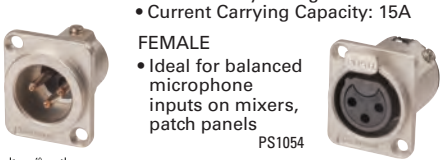
- 24mm hole cut-out
- D series flange
- Stamped phosphor
- Bronze contacts
- Nickel finish
- Max Wire Gauge: 14AWG
- Flammability Rating: UL94-V0
- Current Carrying Capacity: 15A

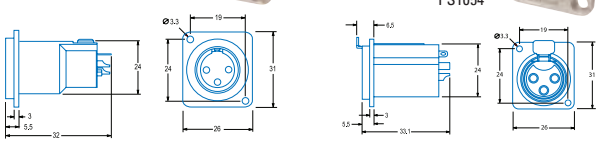
MALE

- Ideal for patch panels, studio, etc

FEMALE

- Ideal for balanced microphone inputs on mixers, patch panels



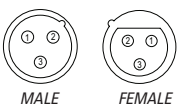


Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Male	PP1058	$8.90	$7.90	$6.90
Female	PS1054	$10.90	$9.50	$8.50

tech talk XLR Wiring

The Standard is defined by the Audio Engineering Society in AES14-1992(r1998)

Pin 1: Shield/Ground
Pin 2: Hot/in Phase / +
Pin 3: Cold / Out of Phase / -

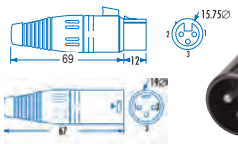


AS SEEN FROM THE FRONT OF CONNECTORS

To create an unbalanced connection, pin 1 & pin 3 are connected to ground & pin 2 carries the signal. Note that there is a lot of equipment (particularly in the US) that has pin 2 & pin 3 designations reversed (i.e. 3 hot, 2 cold). Manufacturers are adopting the Standard on all new equipment.

XLR/Cannon Plugs, Sockets & Adaptors

3 PIN LINE



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Male	PP1012	$5.50	$4.70	$4.30
3 Pin Black - Female	PS1015	$5.90	$5.20	$4.70
3 Pin R/A Black - Male	PP1020	$11.90	$10.70	$9.50
3 Pin R/A Black - Female	PS1022	$11.90	$10.70	$9.50

WATERPROOF IP67 XLR LINE CONNECTORS

A matching IP67 waterproof plug and socket suitable for harsh environments. Great for use with PA gear and cabling that are used in outdoor conditions.

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Line Plug IP67	PP1013	$11.90	$10.70	$9.50
3 Pin Black - Line Socket IP67	PS1017	$11.90	$10.70	$9.50

COMBO XLR / 6.35MM STEREO SOCKET SWITCHED

Combined 3 pole XLR & 6.35mm stereo jack for balanced microphone or line. It will accept 6.35mm mono, 6.35mm stereo or 3-pin male XLR. Suits D-series panel cut-outs.

- Non-locking - Panel or PCB mounting
- Switched - Independent inputs
- Gold plated contacts

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pole	PS1069	$11.90	$10.70	$9.50

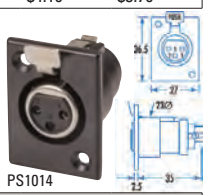
3 PIN CHASSIS - PLASTIC

- Hole cutout 22mm
- Black ABS plastic body

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic-Male	PP1016	$4.90	$4.10	$3.70
Plastic- Female	PS1018	$4.90	$4.10	$3.70

3 PIN CHASSIS - METAL

- Black
- Diecast body.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Metal - Female - Hole cutout 24mm	PS1014	$7.90	$6.90	$5.90

CHASSIS METAL

- Small size, diecast boy, nickel plated
- Hole cutout 24mm

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Small Size Metal - Male	PP1023	$7.90	$7.20	$6.50
Small Size Metal - Female	PS1024	$8.90	$7.90	$6.90

RUBBER XLR COVER BOOT

This 120mm flexible boot slips over the entire XLR - XLR connection to keep water and dust out. Indispensable for protecting permanent connections from damage & dust.

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
XLR Boot Cover	PM1034	$1.90	$1.70	$1.50

XLR 3 PIN ADAPTORS

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA3684	$15.90	$13.70	$12.30
Female	PA3686	$14.90	$13.40	$11.90

XLR TO 6.5MM PLUG ADAPTORS

High quality, metal construction, ideal for converting microphone leads to 6.5mm plugs.

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Female	PA3682	$15.90	$13.70	$12.30
Male	PA3680	$10.90	$9.50	$8.50

XLR TO RCA ADAPTORS

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA3800	$11.90	$10.70	$9.50
Female	PA3802	$12.90	$11.30	$10.30

WATERPROOF & DUST PROOF XLR PLATE MOUNT

Suitable for wet and harsh environments. Features an IPX6 rated rubber gasket and cover to prevent ingress when not in use. Surface mount via screws, hole required for socket recess.

- Dimensions: 43(L) x 35(W) x 35(D)mm

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1014	$9.70	$8.70	$7.75

Mini XLR Plugs & Sockets

3, 4 PIN LINE

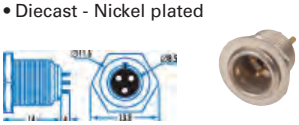
- Diecast body - Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1910	$7.90	$7.20	$6.50
3 Pin - Female	PS1924	$8.90	$7.90	$6.90
4 Pin - Male	PP1912	$8.90	$7.90	$6.90
4 Pin - Female	PS1926	$8.90	$7.90	$6.90

3, 4 PIN CHASSIS

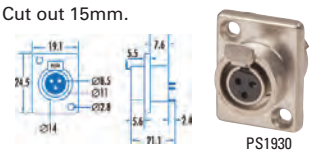
3 PIN MALE

- Diecast - Nickel plated



3 PIN FEMALE

Cut out 15mm.



4 PIN FEMALE

Cut out 15mm.

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP1916	$9.90	$8.50	$7.50
3 Pin - Female	PS1930	$11.90	$10.70	$9.50
4 Pin - Male	PP1918	$9.90	$8.50	$7.50
4 Pin - Female	PS1932	$11.90	$10.70	$9.50

For next day delivery, or Click and Collect, see page 5

Wallplates Stainless Steel

No matter what audio installation you're contemplating, you're sure to find a wallplate to give your room that pro look. Finished in attractive stainless steel, these cost-effective wallplates have all the popular audio connectors, or use a blank to customise your own. Ideal for Hi-Fi installations, home studios, home theatre or just a neat solution to running an AV extension to another room.

PS0551 PS0552

XLR - BLANK

Pre-punched blanks for XLR sockets.
- Sockets not included

Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Single Blank	PS0551	$5.90	$5.30	$4.80
Double Blank	PS0552	$5.90	$5.20	$4.70

XLR - LOADED

Pre-punched wallplate with loaded XLR socket(s).

p.475 more wallplates

PS0553 PS0554

Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Single 3 pin Female XLRs	PS0553	$8.90	$7.90	$6.90
Double 3 pin Female XLRs	PS0554	$11.90	$10.70	$9.50

Wallplates & Sockets

DVI WALLPLATE SOCKET WITH 4 KEYSTONE PORTS

Features a DVI socket to socket joined to the wallplate with standard D-sub screws as well as 4 keystone ports. Expand your wallplate with a combination of other required sockets.
- Dimensions: 115(L) x 70(W)mm

p.475 more wallplates

Type	Cat.	Qty 1+
DVI 4 Port	YN8057	$7.90

KEYSTONE WALLPLATES

Flush type wallplates accept our standard keystone 110 jacks. Fits standard Australian switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.
- Supplied without keystone jacks
- Dimensions: 70(W) x 114(H) x 6(D)mm

YN8050 YN8054 YN8058

Type		Cat.	Qty 1+	Qty 5+	Qty 10+
Single	White	YN8050	$2.00	$1.80	$1.60
Double	White	YN8052	$2.00	$1.80	$1.60
Triple	White	YN8054	$2.00	$1.80	$1.60
Quad	White	YN8056	$2.00	$1.80	$1.60
6 Way	White	YN8058	$2.00	$1.80	$1.60

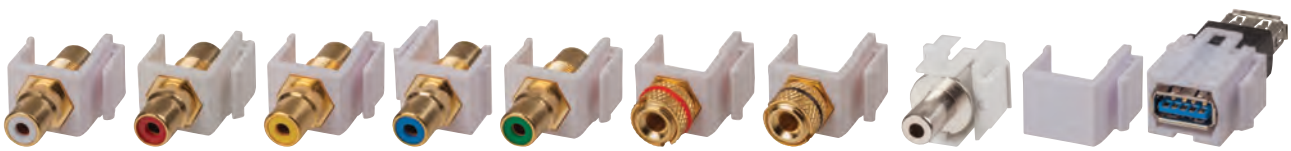
Keystone Inserts

INSERTS FOR KEYSTONE WALLPLATES

A range of inserts to cater for computer and Audio video applications. They fit standard 110 keystone wallplates and allow you to configure your installation any way you like.

p.318 - keystone communication sockets

PS0749 PS0753 PS0795 PS0761 PS0763 PS0769 PS0771 PS0796 PS0797


PS0764 PS0765 PS0767 PS0794 PS0798 PS0774 PS0775 PS0777 PS0779 PS0799

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
TOSLINK - TOSLINK	PS0749	$4.50	$4.05	$3.60
USB - USB Female	PS0753	$5.60	$5.00	$4.45
USB - USB Right Angle	PS0795	$6.90	$6.20	$5.50
F81 - F81 - White	PS0761	$3.30	$2.95	$2.60
BNC - BNC - White	PS0763	$3.30	$2.95	$2.60
RCA - RCA - White	PS0764	$3.30	$2.95	$2.60
RCA - RCA - Red	PS0765	$3.30	$2.95	$2.60
RCA - RCA - Yellow	PS0767	$3.30	$2.95	$2.60
RCA - RCA - Blue	PS0794	$3.30	$2.95	$2.60
RCA - RCA - Green	PS0798	$3.30	$2.95	$2.60

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
S-Video - S Video	PS0769	$2.20	$1.95	$1.75
HDMI - HDMI - White	PS0771	$9.90	$8.90	$7.90
HDMI - HDMI - Right Angled	PS0796	$9.90	$8.90	$7.90
HDMI - HDMI - Flylead	PS0797	$10.90	$9.90	$8.90
USB - USB - White	PS0773	$5.60	$5.00	$4.45
4mm Banana - Red	PS0774	$4.50	$4.05	$3.60
4mm Banana - Black	PS0775	$4.50	$4.05	$3.60
3.5mm Stereo Socket	PS0777	$4.50	$4.05	$3.60
Blank Insert	PS0779	$0.40	$0.36	$0.32
USB 3.0-USB 3.0 - White	PS0799	$13.90	$12.90	$10.90

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

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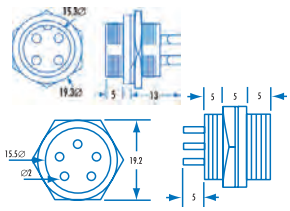
Microphone Series Plugs & Sockets

MICROPHONE CHASSIS MALE

- Solid metal machined body
- Nickel plated
- 10A max 32VDC

PP2013 PP2010 PP2017



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP2013	$3.90	$3.10	$2.70
4 Pin	PP2010	$3.90	$3.10	$2.70
5 Pin	PP2017	$4.50	$3.60	$3.30

MICROPHONE LINE FEMALE

- Solid metal machined body
- Nickel plated
- Also suitable for secure, low voltage DC connection
- 10A max 32VDC

PS2014 PS2012 PS2018

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS2014	$3.90	$3.10	$2.70
4 Pin	PS2012	$3.90	$3.10	$2.70
5 Pin	PS2018	$4.50	$3.60	$3.30

DIN Plugs & Sockets

DIN PLUGS & SOCKETS

Originally a German standard, these connectors are available in versions from 2 to 13 pins. Once widely used, these are now seen less on AV equipment. The 2 pin version is used for some loudspeakers and 5 pin version is still used for connecting MIDI electronic musical instruments & older PC keyboards.

LINE DIN PLUGS

PP0300 PP0302 PP0304 PP0305 PP0306 PP0308 PP0310 PP0312

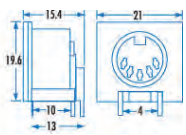
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP0300	$1.05	$0.90	$0.80
3 Pin	PP0302	$1.30	$1.15	$1.00
5 Pin	PP0304	$1.55	$1.35	$1.20
5 Pin 240°	PP0305	$1.55	$1.35	$1.20
5 Pin Premium Die Cast	PP0306	$4.50	$3.90	$3.60
6 Pin	PP0308	$1.85	$1.65	$1.45
7 Pin	PP0310	$2.20	$1.95	$1.75
8 Pin	PP0312	$2.20	$1.95	$1.75

LINE SOCKETS - 5, 6, 8 PIN

PS0352 PS0355 PS0358

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin	PS0352	$2.50	$1.90	$1.70
6 Pin	PS0355	$2.90	$2.60	$2.30
8 Pin	PS0358	$3.90	$3.10	$2.70

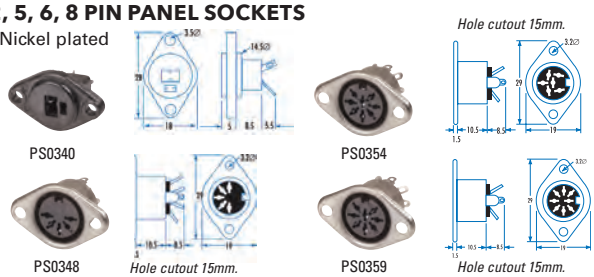
5 PIN RIGHT ANGLE PCB SOCKET



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin Right Angle	PS0350	$2.50	$2.00	$1.80

2, 5, 6, 8 PIN PANEL SOCKETS

- Nickel plated



PS0340 PS0354 PS0348 PS0359

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS0340	$1.80	$1.50	$1.30
5 Pin	PS0348	$1.90	$1.70	$1.50
6 Pin	PS0354	$2.50	$2.00	$1.80
8 Pin	PS0359	$3.90	$3.10	$2.70

Mini DIN Plugs, Sockets & Adaptors

MINI DIN PLUGS

PP0362 PP0364 PP0365 PP0366 PP0370

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin - Nickel Plated	PP0362	$4.90	$4.10	$3.70
4 Pin - Nickel Plated	PP0364	$2.50	$1.90	$1.70
4 Pin - Gold Plated - 6mm	PP0365	$7.90	$7.20	$6.50
6 Pin - Nickel Plated	PP0366	$2.50	$2.10	$1.90
8 Pin - Nickel Plated	PP0370	$2.50	$2.00	$1.80

4 & 6 PIN LINE SOCKETS

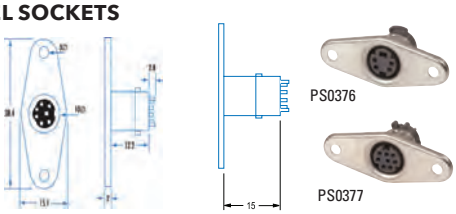
PS0372 PS0368

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS0372	$2.50	$2.00	$1.80
6 Pin	PS0368	$2.90	$2.30	$2.10

4, 6, 8 PIN PANEL SOCKETS

Cutout 10mm.

- Nickel plated



PS0376 PS0377

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS0376	$3.50	$2.90	$2.60
6 Pin	PS0377	$3.50	$2.90	$2.60

Mats Nilsson likes to

think. possible.

"3D Printers, from the early golf ball followed by the dot-matrix then morphed to the inkjet to the current laser. With the 3D printers it will revolutionise prototyping, useable parts and a endless supply of useless things on your work bench. Why buy a chess set, just print one out!"

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gift card jaycar

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75 Ohm Coaxial Television Cable & Rolls

WB2002 WB2004

BELDEN BRAND 75 OHM DOMESTIC TV COAX

This is RG59 with an OD of 6mm. Belden No. 9275.

- Inductance: .097uH/300mm
- Capacitance: 16.2pF/300mm
- Attenuation: 100MHz - 2.6db/30m, 300MHz - 4.45db/30m, 600MHz - 6.20db/30m

Cat. WB2002

75 OHM RG59 GAS INJECTED FOAM COAX

New generation TV Coax. Both a braid & foil, provides 100% screening.

- Won't get water logged underground
- Black in colour
- Outside diameter 6mm

Cat. WB2004

Sold by the metre or by the roll.

Roll Length	Cat.	Per Metre	1+ Roll	5+ Rolls
152m	WB2002	$1.40	$169.00	$125.00
100m	WB2004	$0.84	$66.00	$54.00

75 OHM RG59 GAS INJECTED FOAM COAX 30M ROLL

A 30m roll is generally a common length for a domestic TV antenna installation. Save over buying by the metre, and a small roll is easy to work with.

Black Cat. WB2005

White Cat. WB2001

WB2005 WB2001

Roll Length	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
30m	Black	WB2005	$22.90	$20.90	$17.90
30m	White	WB2001	$22.90	$20.90	$17.90

BELDEN BRAND QUAD SHIELD RG6 75 OHM COAX

Used by Pay-TV installers. Quality Belden brand. We have repackaged in Australia on 100m reels. Normally it is only available in 1000 feet boxes. It features a solid 18AWG steel centre conductor, copper plated, gas injected polyethylene foam insulation (to keep water out), Black PVC jacket, plus 4 layers of screening: a combination of aluminium foils and braiding.

- 100% sweep tested 5MHz-1GHz

WB2009

WB2014

FOXTEL APPROVED

Sold by the metre or by the roll.

SPECIFICATIONS	BOTH
Centre Conductor	18AWG steel Cu plated 1.016 dia
Core O.D	4.572mm
Jacket O.D	7.569mm
Nom. Impedance	75Ω
Nom. Capacity	16.2pf/ft
Vel. of prop	82%, 53.1pf/m
AUSTAR Approval	F 30456
Foxtel Approval	F 30456
Belden Part	1189A

Roll Length	Cat.	Per Metre	1+ Roll	5+ Rolls
100m	WB2009	$2.50	$150.00	$110.00
Roll Length	**Cat.**	**Qty 1+**	**Qty 4+**	**Qty 10+**
30m	WB2014	$54.90	$49.40	$43.90

Communication Coax Cable

WB2012 WB2010 WB2015

50 OHM RG58 C/U NETWORKING

As used for computer networking.

- 100m Roll Length - sold by the metre or roll

Cat. WB2012

50 OHM RG58/U

Suited up to 500MHz, ideal for CB, marine, amateur and two-way radio.

- 100m Roll Length - sold by the metre or roll

Cat. WB2010

50 OHM RG213/U

Communication cable commonly used in UHF.

- 100m Roll Length - sold by the metre or roll

Cat. WB2015

Conductors	AWG	OD	Cat.	Per Metre	1+ Roll	5+ Rolls
19/0.18 + 112/0.12mm	23	5mm	WB2012	$2.50	$200.00	$160.00
19/0.18 + 112/0.12mm	23	5mm	WB2010	$1.90	$150.00	$120.00
7/0.75 + 216/0.12mm	23	10.2mm	WB2015	$5.50	$469.00	$359.00

tech talk — Quality Coax Cable

We do not sell cheap 3C-2V type TV coax. It's screening is inadequate for acceptable performance IN TODAY'S DIGITAL TV ENVIRONMENT.

Telephone Cable

WB1620 WB1622

2 PAIR (4 WIRE)

Flat cable. Ivory colour, 4 x 7 x 0.12mm

- 100m Roll Length - sold by the metre or roll

Cat. WB1620

3 PAIR (6 WIRE)

Flat cable. Ivory colour, 6 x 7 x 0.12mm

- 100m Roll Length - sold by the metre or roll

Cat. WB1622

Conductors	AWG	OD	Cat.	Per Metre	1+ Roll	5+ Rolls
7/0.16mm	28	5mm	WB1620	$0.85	$72.00	$55.00
7/1.16mm	28	7mm	WB1622	$1.10	$93.00	$71.00

Cat 5E / Cat 6 Cable

WB2023

CAT 5E SOLID NETWORK

Single strand Cat 5e, used for long runs in permanent installations.

- A-Tick approved, Blue in colour, 100MHz

POLYWRAPPED 30M PACK - NO ROLL

Cat. WB2023

100M ROLL

Cat. WB2022

Sold by the metre, 30m pack or by the roll.

Roll Length	AWG	Cat.	Qty 1+	Qty 4+	Qty 10+
30m Pack	24	WB2023	$49.90	$44.90	$39.90
Roll Length	**AWG**	**Cat.**	**Per Metre**	**1+ Roll**	**5+ Rolls**
100m	24	WB2022	$1.75	$149.00	$115.00

Cat 5e / Cat 6 Cable

WB2020 WB2030

CAT 5E 8 CORE STRANDED NETWORK

An ACMA approved high quality cable for patch leads and short runs. Consists of 4 twisted pairs, each conductor 7/0.20mm copper wire, polypropylene insulated with a tough ivory colour PVC jacket. 100MHz.

Cat. WB2020

CAT 6 SOLID CORE UTP NETWORK

Designed for reliable high-speed networks. Suitable for IDC terminations on patch panels and wall plates. 4 x 23 AWG solid core twisted pairs. PVC spline.

Cat. WB2030

ACMA Approved

Sold by the metre or by the roll.

Roll Length	AWG	Cat.	Per Metre	1+ Roll	5+ Rolls
100m	24	WB2020	$1.75	$149.00	$115.00
100m	23	WB2030	$2.10	$179.00	$135.00

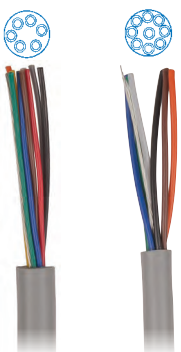
Computer / Data Cable

50 OHM RG174U COAX CABLE

Handy 20m length of unterminated RG174/U cable as commonly used in Wi-Fi and amateur radio installations. Tinned copper braid.

- Impedance: 50 ohm
- Insulation: Polyethylene (PE)
- AWG: 28

Roll Length		Cat.	Qty 1+	Qty 4+	Qty 10+
20m	RG174/U	WB2018	$29.90	$25.40	$19.40



WB1575 6 WAY WB1578 9 WAY

COMPUTER

All are screened to stop RFI.

- 6 way: 7/0.12 x 6C + foil + 7/0.16 OD 5mm
- 9 way: 7/0.12 x 9C + foil + 7/0.16 OD 5mm
- AWG: 28

Cat. WB1575 & Cat. WB1578

Sold by the metre or by the roll.

Roll Length		Cat.	Per Metre	1+ Roll	5+ Rolls
100m	6 Way	WB1575	$2.30	$195.00	$149.00
100m	9 Way	WB1578	$2.70	$229.00	$175.00

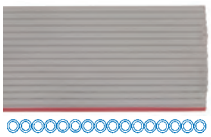
tech talk — Why Our Wire Is Tinned

We now supply all multi-strand power cable with the copper conductors tinned. When you put a coating of pure tin over the copper, you prevent the copper from oxidising. This oxidising can prevent you from achieving a good, tinned solder connection to the wire. This is particularly important in marine and car installations. We have not increased our price to you for this step up in quality.

raincheck!

If your local Jaycar store has sold out of a currently advertised line will be happy to issue a raincheck.

Ribbon Cable

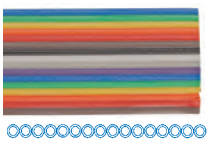


WM4502

IDC RIBBON

Designed for Insulation Displacement Connectors.
Grey in colour with red trace.

Cat. WM4502, Cat. WM4504, Cat. WM4508



WM4516

RAINBOW CABLE 16 CORE

Colour coded strands of insulated conductor bonded together in a flat cable. Ideal for rewiring looms, can be split and each individual wire used. Same rating as 13 x 0.12mm light duty hook-up wire.

Cat. WM4516

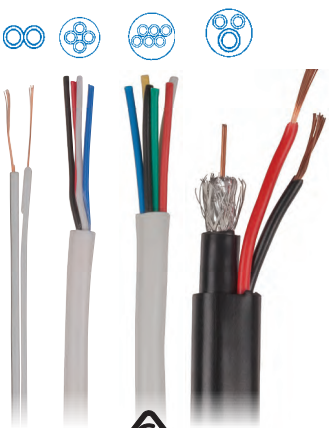
Sold by the metre or by the roll.

	IDC RIBBON	RAINBOW
Pitch	1.27mm (0.05")	1.27mm (0.05")
Strands	7/0.127mm	7/0.127mm
AWG	28	28

Roll Length		Cat.	Per Metre	1+ Roll	5+ Rolls
30m	16 Way	WM4502	$2.50	$52.00	$45.00
30m	26 Way	WM4504	$3.60	$91.00	$70.00
30m	50 Way	WM4508	$7.30	$187.00	$141.00
30m	16 Core	WM4516	$4.50	$109.00	$99.00

p.175 - IDC connectors

Intercom / Alarm / CCTV Cable



WB1700 WB1590 WB1598 WB2017

ACMA Approved

BELL WIRE

Ideal for doorbells, intercoms, or anywhere where a really thin figure 8 cable is required. 7/0.10mm x 2

Cat. WB1700

ALARM - 4 CORE

Flexible stranded conductors, 7 x 0.16 in tough outer sheath.

Cat. WB1590

ALARM - 6 CORE

Austel approved alarm cable. Use with alarms that have diallers. 7/0.2 x 6 flexible stranded conductors in tough outer sheath. OD 5.1mm. Colour white

Cat. WB1598 ACMA APPROVED

RG59 / POWER CABLE

Combines RG59 coaxial cable and 16G power cable. Ideal for CCTV and surveillance applications. OD: 70 x 7.5mm

Cat. WB2017

Sold by the metre or by the roll.

Roll Length	AWG	Cat.	Per Metre	1+ Roll	5+ Rolls
100m	30	WB1700	$0.31	$26.00	$20.00
100m	25	WB1590	$0.96	$80.00	$60.00
100m	24	WB1598	$2.10	$159.00	$145.00
100m	25	WB2017	$1.90	$159.00	$125.00

ALARM CABLE

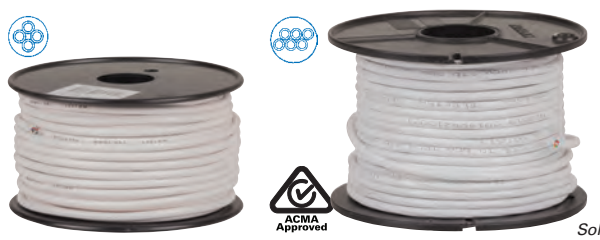
7 x 0.16mm, 4 core

CAT. WB1591

ALARM CABLE - A-TICK APPROVED

Austel approved. For use in alarms with diallers. 6 x 7/0.2 flexible stranded conductors in tough outer sheath.

CAT. WB1596 ACMA APPROVED



WB1591 WB1596

ACMA Approved

Sold by the 30m roll.

Roll Length	AWG	Cat.	Qty 1+	Qty 4+	Qty 10+
30m	25	WB1591	$24.90	$22.50	$19.90
30m	24	WB1596	$54.90	$49.40	$43.90

Coaxial - PAL Plugs & Sockets

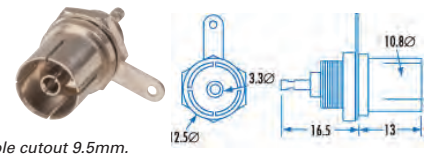
These are the standard aerial connectors for TVs and video recorders. They are often called "Belling-Lee" or "PAL" connectors.
- Generally Nickel plated
- Some are machined out of aluminium

75 OHM LINE PLUGS

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PP0600	$2.50	$2.00	$1.80
Nickel Plated	PP0602	$2.90	$2.60	$2.30
Gold Plated	PP0604	$9.90	$8.50	$7.50
R/A Solderless	PP0606	$3.90	$3.10	$2.70
Crimp - RG59	PP0607	$3.90	$3.10	$2.70
Crimp - RG6	PP0608	$3.90	$3.10	$2.70
Joiner	PS0622	$2.50	$1.80	$1.60

75 OHM CHASSIS MOUNT SOCKET

- Nickel plated
- High quality product



Hole cutout 9.5mm.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS0628	$3.90	$3.10	$2.70

75 OHM LINE SOCKETS
- Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PS0610	$2.50	$1.80	$1.60
Nickel Plated	PS0614	$2.90	$2.60	$2.30
Right Angle Solderless	PS0612	$4.50	$3.60	$3.30
Crimp - RG59	PS0611	$3.50	$2.90	$2.60
Crimp - RG6	PS0613	$3.50	$2.90	$2.60
Gold	PS0605	$9.90	$8.50	$7.50
Joiner	PS0620	$2.50	$1.80	$1.60

75 OHM CABLE JOINER
- Hardwire connection for almost any braided coax or screened audio cable up to 7mm dia.
- Only modest cord anchoring

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS0618	$3.90	$3.10	$2.70

buying online? use PayPal!

You can use PayPal for any online orders, for delivery or 1hr Click and Collect pickup. Just select PayPal during checkout for added convenience!

Coaxial - Adaptors

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
PAL Plug to RCA Socket	PA3675	$4.90	$4.10	$3.70
PAL Socket to PAL Socket	PS0620	$2.50	$1.80	$1.60
PAL Plug to PAL Plug	PS0622	$2.50	$1.80	$1.60
PAL Plug to PAL Socket - Right Angle	PA3679	$5.90	$5.20	$4.70
F Socket to PAL Socket	PA3656	$4.90	$4.10	$3.70
PAL Plug to F-81	PA3653	$4.90	$4.10	$3.70
PAL Plug to F81 Socket - Right Angle	PA3673	$5.90	$5.20	$4.70
F-59 Plug to PAL Socket	PA3672	$2.50	$2.00	$1.80
F-59 Plug to PAL Plug	PA3671	$3.90	$3.10	$2.70
F-59 Plug to F-81 Socket - Right Angle	PA3674	$4.90	$4.10	$3.70
F-59 Plug to Plug	PA0633	$1.90	$1.70	$1.50

Coaxial - F Type Plugs, Sockets & Adaptors

Used mainly for RF signals such as those for satellite dishes, cable boxes or TV aerials. The highest quality connections between your cable/satellite wallplate output and the cable/satellite box. Standard emerged from the US cable TV industry. Now the Aust./NZ standard.

F TYPE PLUGS

F connectors recommended for all new TV installations
- Suits RG59 or RG6 cable
- Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Suits RG59	PP0640	$1.50	$0.99	$0.90
Suits RG6	PP0641	$1.40	$1.25	$1.10
F-59 Crimp Plug for RG59	PP0702	$2.50	$2.00	$1.80
F-59 Crimp Plug for RB6 Cable	PP0704	$2.50	$2.00	$1.80
F-59 Waterproof Compression Plug for RG6 Cable	PP0708	$2.50	$2.10	$1.90

monthly specials & promotions
Lookout for our monthly promotions in store and online.

Related product
HEAVY DUTY COAX CRIMPING TOOL

This tool is specifically designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto coax cable for TV and communications applications. It also has adjustable crimp force and 3 hex dies: 2.54mm, 9.12mm & 10.3mm

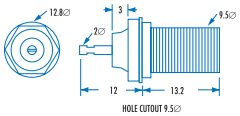
	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1832	$36.90	$33.20	$29.50

p.213 - more crimping tools
p.166 - coaxial cable

Coaxial - F Type Plugs, Sockets & Adaptors

F-61 CHASSIS SOCKET

Hole cutout 9.5mm.
- Nickel plated



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
F-61 Chassis	PS0645	$2.50	$1.80	$1.60

F-59 TYPE SCREW-ON PLUGS

These are ideal crimpless but strong F-plugs for low volume applications. Highly recommended. Simply strip coax back about 12mm, fold braid/foil back over the plastic outer sheath. Trim about 8mm of foam insulation from centre conductor. Then simply screw the knurled connector on the cable until you see sufficient centre conductor out of the front of the connector.
- Nickel plated

PP0637

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Suits RG59 Cable	PP0637	$1.90	$1.50	$1.30
Suits RG6 Cable	PP0638	$1.90	$1.50	$1.30

CRIMPLESS F-TYPE PLUG TO RG6

No crimper or soldering required.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP0671	$3.90	$3.10	$2.70

F-59 TOOL-LESS COMPRESSION CRIMP CONNECTOR

No crimping tool required. Just strip back the outer and inner sheath, fold the braid back and push the connector on. The crimp is reliable with high mechanical strength and will never come off. Suitable for RG6 quad shield coax.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP0677	$3.00	$2.60	$2.30

F-59 LINE PLUG - SOLDERLESS TYPE

Screw assembly - no soldering is required.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP0709	$3.90	$3.60	$3.20

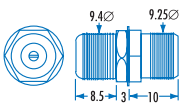
F-59 TYPE 75 OHM DUMMY LOAD

Simply screw on to unused ports of splitters, etc to maintain good VSWR.
- Nickel plated

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Dummy Load	PP0639	$1.90	$1.60	$1.40

F-81 INLINE JOINER

- Nickel plated



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
F-81 Inline Joiner	PS0646	$2.50	$2.00	$1.80

F-81 INLINE JOINER - FOXTEL APPROVED

- Socket to Socket
- Foxtel Approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP0648	$6.90	$5.90	$5.50

TOOL-LESS F59 RG6 PLUG

Just strip the end of your RG6 coax cable and apply the connector. No crimping tools, no soldering and nothing could be simpler!

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP0601	$1.80	$1.60	$1.40

FME

FME LINE

As used on some mobile phone car kits
- Crimp
- Nickel plated
- Gold centre pin

PS0710 PS0712

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug	PP0710	$5.90	$5.20	$4.70
Socket	PS0712	$4.90	$4.10	$3.70

FME - TNC

Female Adaptor

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Female to Female	PA0619	$7.90	$7.20	$6.50

FME PLUG TO PL259 UHF PLUG ADAPTOR

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to Plug	PA0611	$10.90	$9.80	$8.70

TNC

LINE PLUGS

PP0664

PP0665

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder	PP0664	$4.90	$4.10	$3.70
Crimp - RG58U	PP0665	$4.90	$4.10	$3.70
Crimp - RG59U	PP0667	$4.90	$4.10	$3.70

N Type

PP0672

PS0673

PS0674

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Plug - suits RG58U	PP0672	$7.90	$7.20	$6.50
Line Socket - suits RG58U	PS0673	$8.90	$7.90	$6.90
Panel Socket	PS0674	$8.90	$7.90	$6.90

All products on this page generally nickel plated

Related product

HEX RATCHET CRIMPING TOOL

Heavy duty ratchet tool designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto RG6, RG58 or RG59 coax cable. It features adjustable crimping force and ratchet mechanism for complete repeatability. Four hex crimping dies: 1.72mm, 5.49mm, 8.23mm and 9.14mm.

1 YEAR WARRANTY

p.213 more crimping tools

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1833	$47.90	$42.90	$38.40

For next day delivery, or Click and Collect, see page 5

BNC

BNC plugs lock on to the socket and are used for some digital audio connections as well as for video connections, particularly CCTV.

MALE LINE PLUGS

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Male Line Plugs	PP0650	$3.70	$3.30	$2.90
Crimp RG59	PP0688	$3.70	$3.30	$2.90
Crimp RG6	PP0689	$3.70	$3.30	$2.90
Solderless Type	PP0652	$5.60	$5.00	$4.40

CRIMPLESS BNC PLUG TO RG6

No crimper or soldering required.
• Crimpless BNC Plug to RG6

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimpless BNC Plug to RG6	PP0675	$4.00	$3.60	$3.20

MALE CRIMP PLUGS

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7mm Centre Pin - suits RG59	PP0647	$3.30	$2.90	$2.60
0.9mm Centre Pin - suits Belden	PP0651	$3.30	$2.90	$2.60
Crimp Type - RG58	PP0649	$3.30	$2.90	$2.60
Crimp Type - RG6	PP0657	$3.30	$2.90	$2.60
Compression Crimp	PP0669	$4.00	$3.60	$3.20

CRIMP PLUG BOOT

Suits - PP0695 Mini UHF plug, PS0660 BNC female line crimp, PP0649 BNC RG58 Crimp plug & PP0651 BNC RG59 Crimp plug.

	Cat.	Qty 1+	Qty 5+	Qty 20+
	PM0648	$2.50	$2.00	$1.80

MALE TWIST ON PLUGS

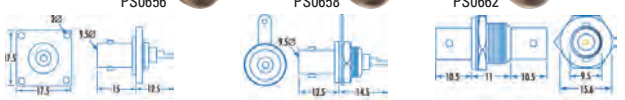
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Twist on for RG59 0.9mm centre	PP0678	$4.50	$4.00	$3.60
Twist on for RG6	PP0679	$4.50	$4.00	$3.60
Terminator plug with 50Ω resistor	PP0655	$5.90	$5.20	$4.70

LINE SOCKETS

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Socket - RG58	PS0660	$5.60	$5.00	$4.40
Line Socket - RG6	PS0659	$5.60	$5.00	$4.40
Joiner	PS0663	$4.90	$4.10	$3.70

CHASSIS SOCKETS

Hole cutout 9.5mm.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Square Mount	PS0656	$3.90	$3.10	$2.70
Single Hole Mount	PS0658	$4.90	$4.10	$3.70
Double Female Mount	PS0662	$5.90	$5.30	$4.80

BNC PCB

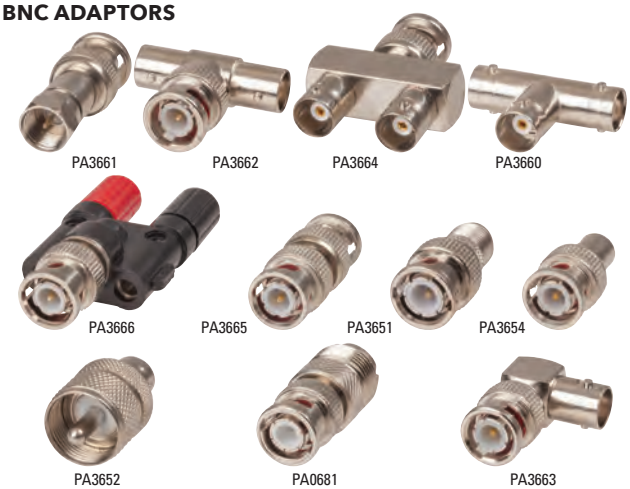
• PCB connect with optional panel screw fixing

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Panel Screw	PS0661	$9.90	$8.50	$7.50

BNC WITH TERMINALS

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Screw Terminal	PA3715	$6.90	$6.20	$5.50
Spring Terminal	PA3716	$6.90	$6.20	$5.50

BNC ADAPTORS



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
BNC Plug to F59 Plug Adaptor	PA3661	$5.90	$5.20	$4.70
BNC Adaptor 1 Male to 2 Female - T	PA3662	$7.90	$7.20	$6.50
BNC Adaptor 1 Male to 2 Female - Y	PA3664	$11.90	$10.70	$9.50
BNC T Adaptor	PA3660	$5.90	$5.20	$4.70
BNC Male to Double Binding Sockets/ Banana Sockets	PA3666	$10.90	$9.50	$8.50
BNC Plug to BNC Plug Adaptor	PA3665	$5.90	$5.20	$4.70
BNC Plug to F-81 Socket	PA3651	$2.50	$2.00	$1.80
BNC Plug to RCA Socket	PA3654	$4.90	$4.10	$3.70
PL259 Plug to BNC Socket	PA3652	$8.90	$7.90	$6.90
PL259 Plug to BNC Plug	PA0681	$4.90	$4.30	$3.90
BNC Plug to BNC Socket R/A	PA3663	$5.90	$5.20	$4.70

RJ11/12 Modular

50µ" Gold Contact.

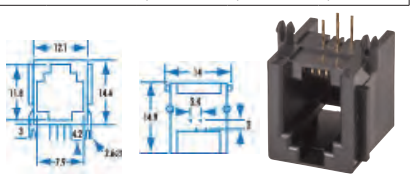
4 PIN FOR STRANDED CABLE
4/4 - RJ11

6 PIN FOR STRANDED CABLE
6/6 - RJ12

Type	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ11 - Pack of 5	PP1430	$2.90	$2.60	$2.30
RJ11 - Pack of 50	PP1431	$24.90	$22.40	$19.90
RJ12 - Pack of 5	PP1432	$3.90	$3.10	$2.70
RJ12 - Pack of 50	PP1433	$28.90	$25.90	$22.70

PCB MODULAR SOCKETS

Side entry.
Not ACMA Approved



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4/4 - RJ11	PS1470	$1.90	$1.70	$1.50
6/6 - RJ12	PS1474	$2.50	$2.00	$1.80

RJ45 Modular

MODULAR PLUGS

50µ" Gold Contact

8/8 - RJ45

- Not ACMA Approved

Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP1436	$9.90	$8.50	$7.50

SCREENED 8 PIN FOR STRANDED CABLE

8P8C with full screening and round cable entry for connection to STP cable.

ACMA Approved

Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP1437	$17.90	$15.90	$14.30

RJ45 MODULAR PLUGS FOR STRANDED/SOLID CAT 6 CABLE PK10

RJ45 Modular Plugs for Stranded and Solid Cat 6 Cable. Pack of 10.

ACMA Approved

Type	Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Stranded	10	PP1447	$16.90	$14.90	$13.30

8 PIN FOR FLAT STRANDED CABLE

8/8 - RJ45

ACMA Approved

PP1434

8 PIN FOR ROUND SOLID CORE CABLE

8/8 RJ45 Suits Cat5e

ACMA Approved

PP1438

Type	Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Standard	5	PP1434	$7.90	$7.20	$6.50
RJ45 Standard	50	PP1435	$36.90	$33.20	$29.50
RJ45 Solid	6	PP1438	$8.90	$7.90	$6.90
RJ45 Solid	50	PP1439	$41.90	$37.90	$33.40

RJ45 BOOTS

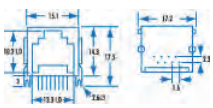
A packet of boots to suit RJ45 8/8 plugs.

PM1441

Pack	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PM1441	$5.90	$5.20	$4.90
50 Blue	PM1442	$19.90	$17.90	$15.90

8 PIN PCB MODULAR SOCKET

- Side entry
- Not ACMA approved



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
8/8 - RJ45	PS1478	$2.90	$2.60	$2.30

WATERPROOF RJ45 CABLE CONNECTOR HOUSING

Allows you to join two Cat5e cables while providing a robust and waterproof connection. Use around the garage, factory or workshop to avoid dust or water ingress, or to survive the knocks and bumps around the office. Includes 2-way Cat5 joiner, but will also accommodate any connector that fits within the internal dimensions of the housing.

- IP Rating: IP68
- Accepts cables: 4 - 7mm Dia
- Dimensions: 120(L x 35(Dia.)mm

**Not ACMA approved.*

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	PS4064	$24.90	$22.40	$19.90

Telephone

TYPE 610 TYPE WALL SKT

For other telephone leads, adaptors - see our Computer & Multimedia section

- Blister pack
- ACMA Approved

ACMA Approved

p.475 more wallplates

** Note: not available in New Zealand.*

Not available in New Zealand

Wallplates & Sockets

AUSTRALIAN / NZ FLUSH PLATES

Our premium Australian / NZ flush plates not only accept our Cat 5e jacks, they are also compatible with many other standard Australian mechanisms and jacks.

- Fits standard Australian/ NZ switch plates
- Perfect for easy flush installation on Gyprock walls
- Supplied unloaded without jacks (see Cat. YN8036)
- 116(W) x 75(H) x 13(D)mm
- Will also accept Clipsal 2000 modules

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN8015	$7.90	$7.20	$6.50
Double	YN8016	$7.90	$7.20	$6.50

RJ12 IDC SOCKET FOR FLUSH PLATES

Voice grade RJ12 6P4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.

Cat.	Qty 1+	Qty 5+	Qty 20+
YN8035	$11.90	$10.70	$9.50

CAT 5E IDC JACK TO SUIT AUSTRALIAN & NZ STYLE FLUSH PLATES

Our premium Cat 5e IDC data jack designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.

Rear terminated with 110 or Krone impact tool

- T568A & T568B colour coding for easy installation
- Suit YN8015/16/17 flush plates

Cat.	Qty 1+	Qty 4+	Qty 10+
YN8036	$11.90	$10.70	$9.50

ACMA Approved

Keystone Sockets

p.164 keystone wallplates & other keystone connectors

INSERTS FOR KEYSTONE WALLPLATES

YN8026 YN8027 YN8028 YN8029

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
RJ11	YN8026	$4.50	$4.05	$3.60
RJ12	YN8027	$4.50	$4.05	$3.60
RJ45 Cat5e	YN8028	$4.50	$4.05	$3.60
RJ45 Cat6	YN8029	$4.50	$4.05	$3.60

110 KEYSTONE JACK

Suitable for use with our keystone wall plates and keystone surface boxes.

- For termination with ISBY impact tool and has combined 568A and T568B colour coding for easy installation
- White in colour

ACMA Approved

Cat.	Qty 1+	Qty 4+	Qty 10+
YN8030	$11.90	$10.70	$9.50

KEYSTONE SURFACE BOX

Side entry surface mount boxes accept our standard keystone 110 jacks.

- Snap-on cover for easy access to wiring
- Double sided tape for easy installation
- Supplied unloaded without keystone jacks

ACMA Approved

YN8022

W x H x D (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Single 30 x 60 x 26	YN8022	$7.90	$7.20	$6.50
Double 55 x 60 x 26	YN8024	$7.90	$7.20	$6.50

USB/HDMI

TYPE A & TYPE B PLUGS

With solder lugs.

PP0790

PP0792

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
A	PP0790	$2.90	$2.60	$2.30
B	PP0792	$2.90	$2.60	$2.30

TYPE A & TYPE B PC MOUNT SOCKETS

4P4C.

PS0916

PS0920

PS0922

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
A	PS0916	$3.90	$3.10	$2.70
B	PS0920	$3.90	$3.10	$2.70
Micro B	PS0922	$3.90	$3.60	$3.20

TYPE A IP67 RATED PLUG CABLES

Industrial USB connectors encased in robust housing with IP67 seal.

- Current rating 1.5A
- -40o to +105°C
- PBT UL94V-0 body

LTW

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
A Male 1m Lead	PP0784	$17.90	$16.10	$14.30

TYPE A PANEL MOUNT USB SOCKETS

Panel-mounting Type A USB socket.

- Suits panels up to 10mm thick
- Mounting hole 20mm

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
A Female	PS0782	$24.90	$22.40	$19.90

PCB MOUNT PLUGS & SOCKETS

A range of PC mount connectors to suit the latest USB & HDMI technologies.

PS0924

PP0925

PS0928

PS0930

USB

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Type-A 3.0 Male	PP0923	$4.50	$4.00	$3.60
Type-A 3.0 Female	PS0924	$4.50	$4.00	$3.60
Type-A Micro 3.0 Male	PP0925	$4.50	$4.00	$3.60
Type-A Micro 3.0 Female	PS0926	$4.50	$4.00	$3.60
Type-B 3.0 Female	PS0928	$4.50	$4.00	$3.60
Type-C 2.0/3.0/3.1 Male	PP0929	$4.50	$4.00	$3.60
Type-C 3.1 Female	PS0930	$4.50	$4.00	$3.60

PP0941

PS0942

PP0945

PS0944

HDMI

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Type-A Male	PP0941	$4.50	$4.00	$3.60
Type A Female	PS0942	$4.50	$4.00	$3.60
Micro Male	PP0945	$4.50	$4.00	$3.60
Micro Female	PS0946	$4.50	$4.00	$3.60
Mini Plug	PP0943	$4.50	$4.00	$3.60
Mini Female	PS0944	$4.50	$4.00	$3.60

SCART

Carries stereo audio, composite video, S-video & RGB signals from AV source to your TV & also allow recording to other sources, for example VCR's. Originated in Europe.

SCART ADAPTOR

SCART Plug to 3 RCA sockets & a S-Video Socket.

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
SCART Adaptor	PA3659	$17.90	$15.90	$14.30

SMA

SMA CONNECTORS

- Gold plated

PP0632

PP0631

PS0634

PP0633

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Plug - RG58 - Crimp	PP0632	$6.90	$5.90	$5.20
Right Angle Plug - RG174 - Crimp	PP0631	$7.90	$7.20	$6.50
Line Socket - RG174 - Solder	PS0634	$5.90	$5.20	$4.70
Line Plug - RG58 - Crimp - R/A	PP0633	$6.90	$6.20	$5.50

SMA REVERSE

- Gold plated

PP0590

PS0592

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Reverse Line Plug - RG174U	PP0590	$7.90	$7.20	$6.50
Reverse Line Socket	PS0592	$7.90	$7.20	$6.50

SMA ADAPTORS

- Nickel or Gold plated

PA0627

PA0629

PA0628

PA0635

PA0616

PA0617

PA0612

PA0613

PA0620

PA0621

PA0622

PA0624

PA0615

PA0618

PA0631

PA0632

PA0630

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
SMA Socket to Reverse SMA Plug	PA0627	$8.90	$7.90	$6.90
SMA Socket to Reverse SMA Socket	PA0629	$8.90	$7.90	$6.90
SMA Plug to Reverse SMA Plug	PA0628	$9.50	$8.50	$7.50
SMA Plug to PL259 Socket	PA0612	$9.90	$8.90	$7.90
FME Socket to SMA Socket	PA0620	$6.90	$6.20	$5.50
SMA Socket to FME Plug	PA0621	$5.90	$5.20	$4.70
SMA Plug to SMA Plug	PA0622	$6.90	$6.20	$5.50
SMA Socket to BNC Socket	PA0624	$5.90	$5.20	$4.70
SMA Plug to BNC Socket	PA0615	$7.90	$7.20	$6.50
N Plug to SMA Socket	PA0616	$8.90	$7.90	$6.90
N Socket to SMA Socket	PA0617	$8.90	$7.90	$6.90
SMA Coupler	PA0635	$8.90	$7.90	$6.90
SMA Socket to PL259 UHF Plug	PA0613	$10.90	$9.80	$8.70
SMA Plug to FME Plug	PA0618	$6.90	$6.20	$5.50
SMA Plug to SMA Plug - R/A	PA0631	$7.90	$7.10	$6.30
SMA Socket to SMA Socket - R/A	PA0632	$7.90	$7.10	$6.30
SMA Plug to Reverse SMA Socket	PA0630	$7.90	$7.10	$6.30

UHF Plugs & Sockets

UHF - MINI MALE LINE PLUGS

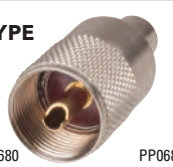
- Nickel plated

PP0695

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimp - RG58U	PP0695	$5.90	$5.20	$4.70
Crimp - RG59	PP0694	$5.90	$5.20	$4.70

UHF LINE PLUGS - PL259 TYPE

- Nickel plated



PP0680

PP0682

	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder - RG-58U - with Reducer	PP0680	$3.90	$3.10	$2.70
Solder - RG-8U	PP0682	$3.90	$3.10	$2.70

UHF JOINER & SOCKET

- Nickel plated

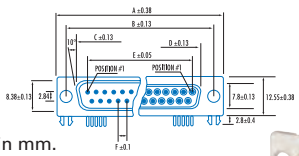
PS0690

PS0686

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Joiner - Double Female	PS0690	$4.90	$4.10	$3.70
SO239 Chassis Socket	PS0686	$3.90	$3.10	$2.70

D Connectors Plugs, Sockets & Hardware

D - IDC



Sizes shown in mm.

SIZE	A	B	C	D	E	F
9 Pin	30.81	24.99	16.92	16.24	11.09	2.74
25 Pin	53.04	47.04	38.96	38.38	33.24	2.77

PP0821

PS0846

Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
IDC Plug	9 Pin	PP0802	$4.90	$4.10	$3.70
IDC Plug	15 Pin	PP0821	$5.50	$4.70	$4.10
IDC Plug	25 Pin	PP0842	$5.90	$4.90	$4.40
IDC Socket	9 Pin	PS0805	$4.90	$4.10	$3.70
IDC Socket	15 Pin	PS0825	$5.50	$4.70	$4.10
IDC Socket	25 Pin	PS0846	$5.90	$4.90	$4.40

D MALE / FEMALE

MALE SOLDER

All 'D' connectors have quality gold plated contacts & nickel plated shells.

PP0800

PS0804

PP0843

PS0845

Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Solder	9 Pin	PP0800	$1.90	$1.50	$1.30
Plug Solder	15 Pin	PP0820	$2.50	$2.00	$1.80
Plug Solder	15HD Pin	PP0831	$4.50	$3.90	$3.40
Plug Solder	25 Pin	PP0840	$2.50	$2.00	$1.80
Plug Solder	37 Pin	PP0860	$5.90	$5.20	$4.70
Socket Solder	9 Pin	PS0804	$2.50	$2.00	$1.80
Socket Solder	15 Pin	PS0824	$2.50	$2.00	$1.80
Socket Solder	15HD Pin	PS0832	$4.50	$3.90	$3.40
Socket Solder	25 Pin	PS0844	$2.50	$2.00	$1.80
Socket Solder	37 Pin	PS0864	$5.90	$5.20	$4.70
R/A Plug Solder	9 Pin	PP0803	$3.90	$3.10	$2.70
R/A Plug Solder	25 Pin	PP0843	$4.50	$3.90	$3.40
R/A Socket Solder	9 Pin	PS0806	$3.90	$3.10	$2.70
R/A Socket Solder	25 Pin	PS0845	$4.50	$3.90	$3.40

D-SUB SOCKET IP67 HARSH ENVIRONMENT

Robust D-Sub socket housed in industrial body and IP67 waterproof housing.

- Current rating 5A
- -40o to +105°C
- Gold flash plating on contacts

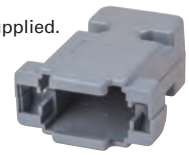
LTW

Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Socket Solder	25 Pin	PS1220	$24.90	$22.40	$19.90

D BACKSHELLS

PLASTIC

Screws supplied.



METAL

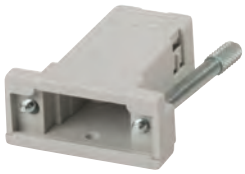
Quality heavy duty metal backshells.

- Ideal where RF screening is required
- Rear entry

ABS FLAMEPROOF D BACKSHELLS

Top quality grey back shells with two cable entries.

- Rear or side entry
- Simply push out the tab required
- Supplied with 2 long finger screws, cable clamp screws and hood fixing screws
- A quality range of backshells



Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic D Backshells	9 Pin	PM0808	$2.90	$2.30	$2.10
Plastic D Backshells	15 Pin	PM0828	$2.90	$2.60	$2.30
Plastic D Backshells	25 Pin	PM0848	$3.90	$3.10	$2.70
Plastic D Backshells	37 Pin	PM0868	$4.90	$4.10	$3.70
Metal D Backshells	9 Pin	PM0812	$4.90	$4.10	$3.70
Metal D Backshells	15 Pin	PM0833	$5.90	$5.20	$4.70
Metal D Backshells	25 Pin	PM0847	$8.90	$7.90	$6.90
ABS D Backshells	9 Pin	PM0810	$3.90	$3.10	$2.70
ABS D Backshells	15 Pin	PM0830	$3.90	$3.40	$3.00
ABS D Backshells	25 Pin	PM0850	$4.90	$4.10	$3.70

D HARDWARE

SUB HEX NUT EXTENDERS

Pkt of 8 pairs (16 pcs) 6mm hex nut extenders for D connectors.

- Double female screw adaptor
- Pack of 8 pairs

PM0857

THUMB SCREWS FOR D BACKSHELLS

Pkt of 4 pairs (8 pcs) of universal thumb screws for D backshells.

- Total length 44mm
- Pack of 4 pairs

PM0859

LOCKING NUTS FOR D CONNECTORS

Packets of 5 pairs (10 pcs.) of D locking nuts.

- Includes screws, nuts and washers
- 6mm length
- Pack of 5 pairs

PM0852

JACK SCREW TO SUIT D-SUB

- 13mm length

PM0854

Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	8	PM0857	$5.90	$5.20	$4.70
Thumb Screws	4	PM0859	$5.90	$5.20	$4.70
Jack Screw	EA	PM0854	$0.90	$0.80	$0.70
Jack Screw Locking	5	PM0852	$5.90	$5.20	$4.70

LOCKING NUT SET FOR D-CONNECTORS

Suits D connectors.

- Length 13mm

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	PM0855	$3.90	$3.10	$2.70

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For next day delivery, or Click and Collect, see page 5

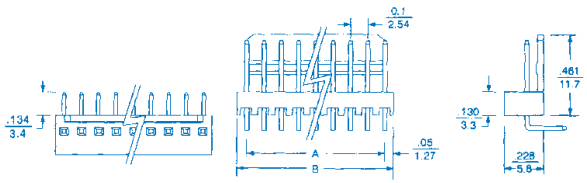
Header Connectors

0.1" (2.54MM) LOCKING & POLARISING HEADER CONNECTORS

A range of connectors for PCB mounting that allow circuit boards to be plugged together at right angles or end-to-end, or cables to be plugged onto circuit boards at right angles or end-on at the edge of the PCB. Both plugs and sockets may be butted up end-to-end to form connectors with any number of ways from 2 upwards. Both plugs are wafer design into which square, tin-plated brass pins have been inserted. These pins protrude 3.4mm on one side, and should be soldered to the PCB. The nylon wafer sits on the PCB and is 3.3 mm thick. The back provides locking and polarising.

- 0.9mm PCB drill hole

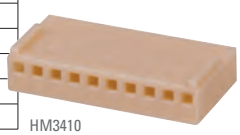
Suitable crimping tool for 0.1" header sockets is our Cat. TH1834.



TECHNICAL INFORMATION	ALL MODELS
Voltage	250V
Current: Brass Crimp/Tin plated	2.5A max. (solderable)
Contact Resistance	20mΩ max
Dielectric Withstanding Voltage	1500VAC
Insulation Resistance	50MΩ
Contact Insertion Force	681g
Contact Retention to Housing	3.63kg
Mating Force	199g max
Normal Force	200g min
Housing	UL 94v-0 White nylon
Temperature	0 to +75°C

0.1" HEADER SOCKETS, LOCKING & POLARISED

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3402	$0.60	$0.52	$0.47
3	HM3403	$0.66	$0.57	$0.50
4	HM3404	$0.78	$0.70	$0.60
6	HM3406	$0.90	$0.80	$0.70
8	HM3408	$1.20	$0.99	$0.90
10	HM3410	$1.50	$1.10	$1.00


HM3410

0.1" PIN PCB PLUG (STRAIGHT ENTRY, LOCKING & POLARISED)

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3412	$0.24	$0.21	$0.19
3	HM3413	$0.36	$0.30	$0.27
4	HM3414	$0.48	$0.42	$0.37
6	HM3416	$0.72	$0.62	$0.55
8	HM3418	$0.96	$0.85	$0.75
10	HM3420	$1.50	$1.00	$0.95

HM3420

0.1" PIN PCB PLUG (RIGHT ANGLE ENTRY, LOCKING & POLARISED)

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3422	$0.36	$0.30	$0.27
3	HM3423	$0.42	$0.37	$0.32
4	HM3424	$0.48	$0.42	$0.37
6	HM3426	$0.72	$0.62	$0.55
8	HM3428	$0.96	$0.85	$0.75
10	HM3430	$1.50	$0.95	$0.85

HM3430

0.156" (4MM) HEADER SOCKETS, LOCKING & POLARISED

(Includes crimp Pins)

HM3432

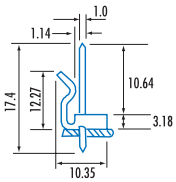
p.213 crimper to suit TH1834

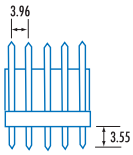
Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3432	$0.96	$0.85	$0.75
3	HM3433	$1.50	$0.95	$0.85
4	HM3434	$1.50	$1.00	$0.95
6	HM3436	$1.70	$1.40	$1.20
8	HM3438	$1.80	$1.50	$1.30
10	HM3440	$1.90	$1.60	$1.40

0.156" (4MM) LOCKING & POLARISING HEADER CONNECTORS

The contacts are rated at 250V @ 7A AC/DC which makes them an ideal power connector to a PCB. They are end to end stackable and commonly seen as the output connector on Switchmode power supplies.

TECHNICAL INFORMATION	ALL MODELS
Voltage	250V
Current	7.0A
Contact Resistance	20mΩ max
Dielectric Withstanding Voltage	1500V
Insulation Resistance	500k Ohm min
Contact Insertion Force	2.28kg
Contact Retention to Housing	4.56kg
Wire Pull-Out force	2.85kg
Mating Force	0.86kg
Unmating Force	150g
Durability	25 cycles
Housing	Nylon UL 94V-2
Temperature	-40 to 105°C





0.156" (4MM) LOCKING & POLARISED, STRAIGHT ENTRY PIN PCB PLUG

(To match previous headers)

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3442	$0.36	$0.30	$0.27
3	HM3443	$0.42	$0.37	$0.32
4	HM3444	$0.48	$0.42	$0.37
6	HM3446	$0.72	$0.62	$0.55
8	HM3448	$0.96	$0.85	$0.75
10	HM3450	$1.50	$0.95	$0.85

HM3450

Disk Drive Connectors

DISK DRIVE POWER CONNECTOR - PLUG

Plug for wiring power to any standard drive. Has crimp pins.

PP0743

DISK DRIVE PCB POWER PLUG

Power Plug to PC drives.

PP0744

DISK DRIVE POWER SOCKET

Socket for wiring power cables for use on any standard drive. Has crimp pins.

PS0742

DISK DRIVE IDC POWER SOCKET

- Insulation displacement type

PS0740

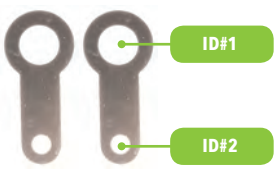
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Power Plug	PP0743	$2.50	$2.00	$1.80
PCB Power Plug	PP0744	$1.90	$1.50	$1.30
Power Socket	PS0742	$3.90	$3.10	$2.70
IDC Power Socket	PS0740	$4.90	$4.10	$3.70

Solder Lugs & Tagstrips

SOLDER LUGS

Solder lugs for any screw down connection.

- Length: 17.6mm
- ID#1: 4.3mm
- ID#2: 2.0mm
- Tin plated
- 10A rated

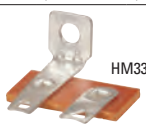


Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
50	HP1350	$4.90	$4.10	$3.70

TAGSTRIPS

- Tin plated lugs

Staked to phenolic


HM3302

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM3302	$0.75	$0.68	$0.60
3 Way	HM3303	$0.90	$0.81	$0.72
4 Way	HM3304	$1.05	$0.90	$0.80
5 Way	HM3305	$1.25	$1.10	$1.00
8 Way	HM3308	$1.70	$1.50	$1.35

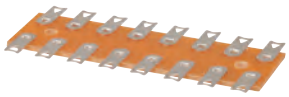
Solder Lugs & Tagstrips CONTINUED

TAGBOARD

2 tagboards per pack with 8 tin plated lugs per side.

- Dimensions: 80(L) x 32(W)mm (Including lugs)

Staked to phenolic



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3320	$4.00	$3.60	$3.20

IDC Plugs, Sockets & Pins

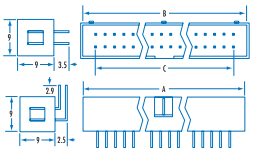
IDC HEADERS

All headers have gold plated pins.

VERTICAL

PP1116

DIMENSIONS (MM)	PINS	A	B	C
Cat. PP1100	10	20	18	10
Cat. PP1106	16	28	26	18
Cat. PP1110	26	41	38.5	30.5
Cat. PP1112	34	51	49.5	41
Cat. PP1114	40	58.5	56	48
Cat. PP1116	50	71	69	61



Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP1100	$1.50	$0.99	$0.90
16	PP1106	$1.50	$1.30	$1.20
26	PP1110	$1.90	$1.70	$1.50
34	PP1112	$2.50	$2.00	$1.80
40	PP1114	$2.90	$2.30	$2.10
50	PP1116	$1.30		

RIGHT ANGLE

DIMENSIONS (MM)	PINS	A	B	C
Cat. PP1118	10	20	18	10
Cat. PP1122	16	28	26	18
Cat. PP1126	26	41	38.5	30.5
Cat. PP1128	34	51	49.5	41
Cat. PP1132	50	71	69	61

PP1132

Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP1118	$1.50	$1.30	$1.20
16	PP1122	$1.90	$1.50	$1.30
26	PP1126	$2.50	$1.80	$1.60
34	PP1128	$2.90	$2.30	$2.10
50	PP1132	$3.90	$3.10	$2.70

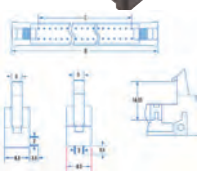
IDC LOCKING HEADERS

All headers have gold plated pins.

VERTICAL

PP1138

DIMENSIONS (MM)	PINS	A	B	C	D
Cat. PP1134	10	32	10	22	18
Cat. PP1138	16	39.5	18	29.5	25.5
Cat. PP1140	20	45	23	34.5	31
Cat. PP1142	26	52	30.5	42	38
Cat. PP1148	50	83	61	73	69

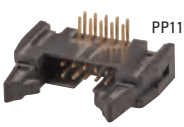


Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP1134	$1.50	$1.30	$1.20
16	PP1138	$1.90	$1.70	$1.50
20	PP1140	$2.50	$2.00	$1.80
26	PP1142	$2.90	$2.30	$2.10
50	PP1148	$4.50	$3.90	$3.60

RIGHT ANGLE

DIMENSIONS (MM)	PINS	A	B	C	D
Cat. PP1150	10	32	10	22	18
Cat. PP1154	16	39.5	18	29.5	25.5
Cat. PP1164	50	83	61	73	69

PP1150



Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP1150	$1.90	$1.50	$1.30
16	PP1154	$2.50	$1.80	$1.60
50	PP1164	$1.30		

IDC LINE SOCKETS

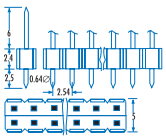
- Insulation displacement connection
- Suits standard pitch ribbon cable
- 3A rated

p.167 IDC cable to suit

Pins	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
10	3A	PS0984	$1.90	$1.70	$1.50
16	3A	PS0985	$2.50	$1.90	$1.70
20	3A	PS0986	$2.50	$2.00	$1.80
26	3A	PS0987	$2.90	$2.30	$2.10
34	3A	PS0988	$3.50	$2.70	$2.40
40	3A	PS0989	$3.90	$3.10	$2.70
50	3A	PS0990	$4.50	$3.60	$3.30

DUAL IN-LINE JUMPERS

- 40 way (2 x 20)
- Snap apart
- 3A rated

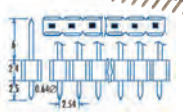


Pins	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
40	3A	HM3250	$2.50	$1.80	$1.60

HEADER TERMINAL STRIPS 28 & 40 PIN

VERTICAL LAUNCHER - 0.1"/ 2.54mm Pitch For PCBs and PCB mass terminals. Snap apart if you need a small length

- 3A rated



Pins	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
28	3A	HM3211	$1.20	$0.90	$0.80
40	3A	HM3212	$1.50	$0.99	$0.90

40 PIN FEMALE HEADER STRIP

Just like the headers on the Duinotech main boards & a great match for the HM3212 40 pin male header strip. Trimming may be needed to use shorter lengths.

- 3A rated

Pins	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
40	3A	HM3230	$2.20	$1.95	$1.75

2 WAY CRIMP PLUG - 2.54MM - PKT 10

2 way plug commonly used on cordless phone batteries and RC toy Li-Po batteries.

- Ratings: Current 3A / Voltage 250V AC/DC
- Pitch: 2.54mm
- Temperature Rating: -25°C to +85°C
- Suitable wire size: 30-22AWG (0.25mm to 0.4mm)

Type	PACK	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimp Plugs	10	PT4453	$3.30	$2.95	$2.60

JUMPER SHUNTS

- 2.54mm spacing
- Pack of 10
- 3A rated

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HM3240	$2.50	$1.90	$1.70

PCB PINS & SOCKETS

0.9mm pins and sockets for easy termination of wire on PCB boards.

- Gold flashed
- 5A rated

Type	PACK	Cat.	Qty 1+	Qty 4+	Qty 10+
Pins	50	HP1250	$5.50	$4.70	$4.30
Sockets	25	HP1260	$6.90	$5.70	$5.20

For next day delivery, or Click and Collect, see page 5

High Current - General Purpose Single Core - By The Metre or Roll

15 AMP TINNED

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications.

Red: WH3073

Black: WH3075

SPECIFICATIONS	WH3073 & WH3075
Current Capacity	15A
Conductor mm2	1.84mm²
Conductor Material	Tinned Copper
AWG	15
Stranding	26 x 0.3mmTC
Insulation	PVC
Resistance (20˚C)	0.0108 Ω/m
Wire Dia.	1.53mm
Overall Dia.	3.2mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3073	$1.55	$115.00	$99.00
WH3075	$1.55	$115.00	$99.00

25 AMP TINNED

Ideal for most automotive wiring. Tinned for corrosion prevention in marine applications.

Red: WH3080

Black: WH3082

SPECIFICATIONS	WH3080 & WH3082
Current Capacity	25A
Conductor mm2	2.9mm²
Conductor Material	Tinned Copper
AWG	12
Stranding	41 x 0.3mmTC
Insulation	PVC
Resistance (20˚C)	0.0059 Ω/m
Wire Dia.	1.99mm
Overall Dia.	4.5mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3080	$3.10	$269.00	$229.00
WH3082	$3.10	$269.00	$229.00

56A 8 GAUGE OFC HIGH CURRENT

Good for all but the biggest car amplifiers etc.

Red: WH3060

Black: WH3062

SPECIFICATIONS	WH3060 & WH3062
Current Capacity	56A
Conductor mm2	7.5mm²
Conductor Material	OFC
AWG	8
Stranding	7 x 95/0.12mm
Insulation	PVC
Resistance (20˚C)	0.00252 Ω/m
Wire Dia.	4.05mm
Overall Dia.	6.5mm
Roll Length	100m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3060	$4.90	$429.00	$365.00
WH3062	$4.90	$429.00	$365.00

110A 4 GAUGE OFC SUPER HIGH CURRENT

Run from your battery to distribution boxes and then the 8GA to amps etc.

Red: WH3064

Black: WH3066

SPECIFICATIONS	WH3064 & WH3066
Current Capacity	100A
Conductor mm2	21mm²
Conductor Material	OFC
AWG	4
Stranding	7 x 7 x 34/0.127mm
Insulation	PVC
Resistance (20˚C)	0.00097 Ω/m
Wire Dia.	7.70mm
Overall Dia.	10mm
Roll Length	50m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3064	$11.90	$525.00	$445.00
WH3066	$11.90	$525.00	$445.00

150A 2 GAUGE OFC ULTRA HIGH CURRENT

Run from your car battery to distribution boxes and then 8GA or 4GA to amps, etc.

Red: WH3070

Black: WH3072

SPECIFICATIONS	WH3070 & WH3072
Current Capacity	150A
Conductor mm2	31mm²
Conductor Material	OFC
AWG	2
Stranding	145 x 19/0.12mm
Insulation	PVC
Resistance (20˚C)	0.0007 Ω/m
Wire Dia.	8.3mm
Overall Dia.	13mm
Roll Length	30m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3070	$19.90	$525.00	$449.00
WH3072	$19.90	$525.00	$449.00

200A 0 GAUGE OFC ULTRA HIGH CURRENT

Run from your battery to distribution blocks and then 2GA, 4GA or 8GA to your amplifiers or other power equipment for seriously high current applications.

Red: WH3092

Black: WH3094

SPECIFICATIONS	WH3092 & WH3094
Current Capacity	200A
Conductor mm2	44mm²
Conductor Material	OFC
AWG	0
Stranding	7 x 7 x 81/0.12mm
Insulation	PVC
Resistance (20˚C)	350 µΩ/m
Wire Dia.	12.2mm
Overall Dia.	15mm
Roll Length	25m

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3092	$29.90	$655.00	$559.00
WH3094	$29.90	$655.00	$559.00

High Current - General Purpose - Handy Packs

7.5 AMP TINNED - HANDY PACKS

Flexible heavy duty tinned copper cable suitable for general purpose wiring up to 250V supplied on an easy to use handy pack 10m reel. Suitable for use in marine.

RED: WH3045 **BLACK:** WH3046

GREEN: WH3047

SPECIFICATIONS	ALL MODELS
Rated Current	7.5A
Conductor Dia.	0.97mm
Conductor mm2	0.75mm²
AWG	18/19
Stranding	24 x 0.2mmTC
Insulation	PVC
Resistance (20˚C)	0.0237 ohm/m
Overall Dia.	2.4mm
Roll Length	10m

Standard PVC insulation +80°C

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3045	$6.20	$5.60	$5.00
WH3046	$6.20	$5.60	$5.00
WH3047	$6.20	$5.60	$5.00

7.5 AMP TINNED - HEAVY DUTY SILICONE HANDY PACKS - 10M ROLLS

Silicone rubber insulation, very flexible with high temperature rating. Max temperature 180˚C.

- Roll Length 10m

RED: WH3035

BLACK: WH3037

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3035	$17.90	$16.10	$14.30
WH3037	$17.90	$16.10	$14.30

p.178 - light duty hook-up cable

What does "OFC" mean? It means OXYGEN FREE COPPER. It's a purer form of copper metal.

15 AMP TINNED - HANDY PACKS

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications. Supplied on an easy to use 10m handy pack reel and available in three colours.

- Tinned copper cable

RED: WH3054

BLACK: WH3055

GREEN: WH3056

SPECIFICATIONS	ALL MODELS
Rated Current	15A
AWG	16
Stranding	26 x 0.3mm
Insulation	PVC
Maximum Temp.	80˚C
Overall Dia.	3.3mm
Roll Length	10m

Standard PVC insulation +80°C

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3054	$14.90	$13.50	$11.90
WH3055	$14.90	$13.50	$11.90
WH3056	$14.90	$13.50	$11.90

pick me

High Current - General Purpose - 2 Core

	Rated current	Conductor Dia	Conductor mm2	Stranding	awg	Roll length
WH3057 / 49 / 53	7.5A	1.9mm	0.75mm² x 2	24 x 0.2mm²	18	100m / 10m / 30m
WH3079 / 77	15A	1.45mm x 2	1.5mm² x 2	(48 x 0.2mm²) x 2	16	100m / 30m
WH3087	25A	3.3mm x 2	2.90mm²	41/0.30mm (per conductor)	12	100m
WH3063	56A	3.2mm x 2	8mm² x 2	(7 x 101 x 0.12mm²) x 2	8	50m
WH3067	90A	4.11mm x 2	13.3mm² x 2	(7 x 7 X 24 x 0.12mm²) x 2	6	50m

7.5 AMP 2 CORE TINNED DC POWER CABLE

Double insulated 2 core power cable suitable for auto & boating applications. Tinned copper cable suitable for use in marine applications. Sold by the metre or 10m handy pack or 30m roll pack. PVC Insulation.

- Resistance (20˚C): 0.024 ohm/m
- Max Temp.: 80˚C
- Dimensions: 5(W) x 3.2(H)mm

WH3057
- 100m Roll

WH3049
- 10m Roll

WH3053
- 30m Roll

Sold by the metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3057	$1.60	$119.00	$95.00
Cat.	**Qty 1+**	**Qty 4+**	**Qty 10+**
WH3049	$14.90	$13.90	$11.90
WH3053	$39.90	$35.90	$31.90

15 AMP TINNED

Double insulated 2 core tinned power cable suitable for automotive and marine applications (PVC + 48 x 0.2mm²) x 2. WH3077 is 30m roll pack of WH3079.
PVC Insulation.

- Resistance (20˚C): 0.0123 ohm/m
- Max Temp.: 80˚C
- Dimensions: 4.5 x 7.2mm

WH3079
- 100m Roll, sold by the metre or roll

WH3077
- 30m Roll, sold by the roll only

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3079	$3.10	$229.00	$199.00
Cat.	**Qty 1+**	**Qty 4+**	**Qty 10+**
WH3077	$84.90	$76.50	$67.90

25 AMP FIGURE-8 TINNED - BY THE METRE

Ideal for most auto, marine, or general purpose wiring. Twin core for positive and negative connections. Tinned copper conductors. PVC Insulation.

- Resistance (20˚C): 0.0053 ohm/m
- Max Temp.: 80˚C
- 3.5mm (outside dia)

WH3087

100m roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3087	$5.30	$479.00	$425.00

56 AMP FIGURE-8 TINNED - BY THE METRE

For higher current applications where twin core cabling is required. Red & black colour for easy identification. PVC Insulation.

- Resistance: (20˚C): 0.0024 ohm/m
- Max Temp.: 80˚C
- Dimensions: 6.7 x 13.6mm

WH3063

50m roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3063	$9.90	$435.00	$369.00

90 AMP FIGURE-8 TINNED - BY THE METRE

For even higher current applications where twin core cabling is required. Red & black colour for easy identification. PVC Insulation.

- Resistance: (20˚C): 0.0013 ohm/m
- Max. Temp.: 80˚C
- Dimensions: 8.5 x 17.0mm

WH3067 *50m roll.*

Sold by the metre or by the roll.

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3067	$14.90	$629.00	$559.00

Solar System Cable

UV STABILISED SOLAR POWER CABLE - 100 METRE CABLE

Very tough cable, specifically for the rigors of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimize corrosion. Use with our PV connectors for complete environmental protection.

TÜV CERTIFIED

Sold by the metre or by the roll. WH3121 WH3122

SPECIFICATIONS	WH3121	WH3122
Rated Current	58A	76A
Conductor Area	4.0mm²	6.0mm²
Conductor Material	Tin plate copper, Class 5	
Rated Voltage	1000VDC	
Temp Range	-40 - +125°C	
Ingress Protection	IP65	
Insulation Material	XLPC	
TUV Certification	2 PfG 1161/01.06	
Roll Length	100m	

Cat.	Per Metre	1+ Roll	5+ Rolls
WH3121	$5.90	$519.00	$445.00
WH3122	$9.70	$855.00	$729.00

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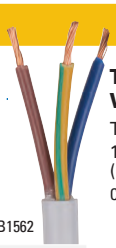
AC Mains Cable

TWO CORE MAINS FLEX

Two-core mains flex cable (no earth) with a white outer PVC jacket. Suitable for general 240V appliances not requiring an earth.

CAT. WB1560

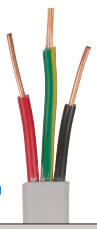
THREE CORE MAINS FLEX



Standard 240V 3 core mains flex power cable with a white outer PVC jacket. Suitable for extension cables and general 240V appliances where an earth is required.

CAT. WB1562

TWIN & EARTH WIRING - LIGHTING



Twin & Earth Flat Cable
1.00mm2 x 2+E
(Lights 10A)

CAT. WB1565

TWIN & EARTH WIRING -POWER

Twin & Earth Flat Cable
2.5mm2 x 2+E
(Power 20A)

CAT. WB1568

SPECIFICATIONS	WB1560	WB1562	WB1565	WB1568
Rated Current	7.5A	10A	10A (Lights)	20A
Type	Round		Flat	
Stranding	24 / 0.2	32 / 0.1	1 / 1.13mm	7 / 0.67
Approval No.	Q070451	Q080451		
Roll Length	100m			
Active/Neutral	Brown - Active / Blue - Neutral			

CONDUCTOR AREA	Cat.	Per Metre	1+ Roll	5+ Rolls
0.75mm² x 2	WB1560	$1.60	$129.00	$105.00
1.0mm² x 3	WB1562	$3.50	$279.00	$229.00
1.0mm² x 2 + Earth	WB1565	$1.90	$149.00	$125.00
2.5mm² x 2 + Earth	WB1568	$3.00	$240.00	$195.00

For next day delivery, or Click and Collect, see page 5

General Purpose Power

FLEXIBLE LIGHT DUTY

13 x 0.12mm. Suited for all general purpose wiring. 8 different colours

Rated Current	0.6A	Red	WH3010
Conductor Dia.	0.42mm	Black	WH3011
Conductor	0.147mm²	Brown	WH3012
Stranding	13 x 0.12mmTC	Orange	WH3013
Overall Dia.	1.8mm	Yellow	WH3014
AWG	25	Green	WH3015
Roll Length	100m	Blue	WH3016
		White	WH3017

Sold by the metre or by the roll.

	Per Metre	1+ Roll	5+ Rolls
All Types	$0.30	$18.00	$14.00

HEAVY DUTY

24 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	7.5A	Red	WH3040
Conductor Dia.	0.97mm	Black	WH3041
Conductor	0.75mm²	Green	WH3042
Stranding	24 x 0.2mm		
Overall Dia.	2.4mm		
AWG	18/19		
Roll Length	100m		

Sold by the metre or by the roll.

	Per Metre	1+ Roll	5+ Rolls
All Types	$0.65	$49.00	$42.00

EXTRA HEAVY DUTY

32 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	10A	Brown	WH3050
Conductor Dia.	1.15mm	Blue	WH3052
Conductor	1mm²		
Stranding	32 x 0.2mm		
Overall Dia.	2.8mm		
AWG	17		
Roll Length	100m		

Sold by the metre or by the roll.

	Per Metre	1+ Roll	5+ Rolls
All Types	$1.00	$90.00	$80.00

Hook-Up Cable

FLEXIBLE LIGHT DUTY - 25 METRE

WH3000

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.

Current rating	0.6A	Red	WH3000
Insulation	PVC	Black	WH3001
Resistance (20˚C)	0.1365 Ω/m	Brown	WH3002
Max temp.	70˚C	Orange	WH3003
AWG	26	Yellow	WH3004
Roll Length	25m	Green	WH3005
		Blue	WH3006
		White	WH3007

	1+ Roll	4+ Rolls	10+ Rolls
Sold Per Roll	$6.50	$5.80	$5.20

FLEXIBLE LIGHT DUTY REEL PACKS OF 8 - 25 METRES

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.

Current Rating	0.6A	**Max temp.**	70˚C
Insulation	PVC	**AWG**	26
Stranding	13 x 0.12mmTC	**Overall Dia.**	1.8mm
Resistance (20˚C)	0.1365 ohm/m	**Roll Length**	25m

Cat.	Qty 1+	Qty 4+	Qty 10+
WH3009	$41.90	$37.90	$34.50

HOOK UP CABLE PACKS 2 METRE LENGTHS

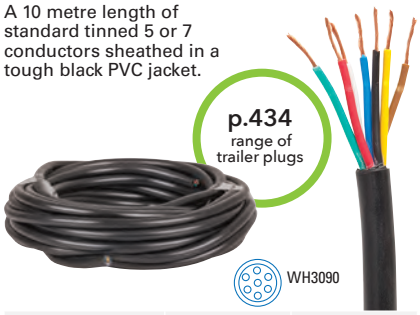
2 metres of 8 different colours of 10 x 0.12mm hook-up cable. Total of 16m of cable.

Cat.	Qty 1+	Qty 5+	Qty 10+
WH3025	$5.90	$5.20	$4.80

Trailer Cable - 10m Roll

TRAILER CABLE - 10 METRE ROLL

A 10 metre length of standard tinned 5 or 7 conductors sheathed in a tough black PVC jacket.



p.434 range of trailer plugs

WH3090

SPECIFICATIONS	WH3091	WH3090
Conductor Current	5A	
Cores	5	7
Total Diameter	6.3mm	8.2mm
Roll Length	10m	

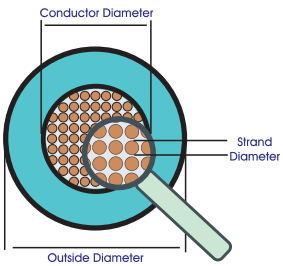
Cat.	Qty 1+	Qty 4+	Qty 10+
WH3091	$48.90	$43.00	$36.60
WH3090	$54.90	$47.90	$40.90

tech talk Wire & Cable

Conductors vs Strands

Diameter of wire and cable in this catalogue is expressed by the number of strands x strand diameter.

Eg. 13 x 0.12 reads as 13 strands of 0.12 diameter cable.



Special Application

ENAMELLED COPPER WIRE

This soft copper wire is coated in a high dielectric strength varnish. You can solder through the enamel, but we recommend that you lightly sandpaper the wire ends with 200+ grit paper to ensure good solder adhesion, especially with RoHS type solder.

MADE IN

LIFE LIFETIME GUARANTEE

mm	B&S	Weight	AWG	Approx Lm	Cat.	Qty 1+	Qty 4+	Qty 10+
0.25	30	25g	33	58	WW4012	$8.90	$7.90	$6.90
0.315	28	25g	31	40	WW4013	$8.90	$7.90	$6.90
0.4	26	25g	28	22	WW4014	$8.90	$7.90	$6.90
0.5	24	100g	25	57	WW4016	$14.90	$13.40	$11.90
0.63	22	100g	23	36	WW4018	$14.90	$13.50	$11.90
0.8	20	100g	21	22	WW4020	$15.90	$13.70	$12.30
1.0	18	100g	19	14	WW4022	$13.90	$12.50	$11.00
1.25	16	100g	18	9	WW4024	$14.90	$13.40	$11.90

WIRE WRAP ON SPOOLS - 30 METRES

This Kynar wire is high quality silver plated.

- Available in three colours
- Supplied on a 30 metre reel

Roll Length	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
30m	Red	WW4344	$19.90	$17.90	$15.90
30m	Black	WW4345	$19.90	$17.90	$15.90
30m	Blue	WW4346	$19.90	$17.90	$15.90

TINNED COPPER WIRE

Two handy sizes of AWG 22 solid copper (0.71mm dia.) for wire links etc.

- Tin plated

Weight	Cat.	Qty 1+	Qty 4+	Qty 10+
25g	WW4032	$15.90	$13.70	$12.30
100g	WW4030	$36.90	$32.90	$29.90

NICHROME RESISTANCE WIRE - 4 METRES

Used for wiring heating elements such as toasters, etc.

- 80% nickel, 20% chromium.
- Resistance 13.77 ohm per metre.
- Size 28 B&S (0.315mm)
- 4m

LENGTH 4 METRES.

Cat.	Qty 1+	Qty 4+	Qty 10+
WW4040	$5.90	$5.20	$4.70

Terminal Blocks & Connectors

WAGO PUSH WIRE CONNECTORS

WAGO 273 Series PUSH WIRE® connector for use in junction boxes suitable for solid conductors. This reliable connector with PUSH WIRE® technology has proven itself as an immediate solution for use with cross-sections up to 4mm2. The transparent housing enables the installer to see at a glance whether all the conductors have been fully inserted & properly connected.

HM3232

SIZE	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way 24A	Yellow	HM3231	$0.90	$0.81	$0.72
3 Way 24A	Red	HM3233	$1.85	$1.65	$1.45
4 Way 41A	Orange	HM3232	$1.10	$0.90	$0.80

WAGO SPLICE TERMINAL BLOCKS

Connect different types of conductors and bridge large differences in cross section with ease! In practical use, this connector can be used for intercom wiring, or to hook-up of an electric stove - fast. 10A rated.

HM3235

Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	10A	HM3234	$1.45	$1.25	$1.15
3 Way	10A	HM3235	$1.55	$1.35	$1.15

CARRIER FOR SPLICE TERMINAL BLOCKS

An orange mounting carrier suitable for HM3234 (2 wire) and HM3235 (3 wire) compact splicing connectors.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM3236	$2.40	$2.10	$1.90

"JOW" CABLE CLAMP CONNECTORS

Simply insert your wire into the clamp opening and snap it shut using your hands or small pliers depending on wire gauge to make the connection. The precision-sharpened connector blades borrows the IDC configuration that cut through the wires create a connection. Available in two shapes - "I" type and "T" type. "I" type are used for end to end connections whereas the "T" type for parallel connections. Ideal for applications such as: low voltage LEDs, residential, automotive, communication and broadcasting.

- Avoid stripping, twisting or crimping cables together eliminates need to tape cables
- Creates an IP33 connection
- Electrically Safety approved
- Handles up to 600VAC
- RoHS compliant

SPECIFICATIONS	PT4640	PT4641
Suitable For Cable Between	27-20 (AWG) Cross section (mm2): 0.2-0.5	19-17 (AWG) Cross section (mm2): 0.75
Max Current (240VAC)	3A	10A
Connection Loss (Ohm)	0.0018	0.0010
Dimensions/Weight	25(L) x 5.5(W)x 5.5(H) mm/0.8g	30(L) x 6(W) x 6(H)mm/1g

	PT4651	PT4653
Suitable For Cable Between	19-17 (AWG), Cross section (mm2): 0.75	3-12 (AWG), Cross section (mm2): 2.5
Max Current (240VAC)	10A	20A
Connection Loss (Ohm)	0.0010	0.0001
Dimensions/Weight	30(L) x 6(W) x 6(H)mm/1.6g	37(L) x 7.7(W) x 7.7(H) mm/3.3g

Type		Current	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
In-line	I Type	3A	6	PT4640	$8.90	$8.00	$7.10
In-line	I Type	10A	4	PT4641	$7.90	$7.10	$6.30
Parallel	T Type	10A	4	PT4651	$8.90	$8.00	$7.10
Parallel	T Type	20A	2	PT4653	$8.90	$8.00	$7.10

Nylon Terminal Strips

We have a large range of soft nylon terminal strips with improved quality. See next page.

CERAMIC TERMINAL BLOCKS

Glazed porcelain terminal blocks are ideal for high temperature situations, such as in lighting. Ask us for competitive bulk prices.

HM3182 29(L) X22(D)X17(H)MM — HM3183 30(L) X18(D)X16(H)MM — HM3185 52(L) X29(D)X22(H)MM

Type	Current	Voltage	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Wire Medium	10A	250VAC	HM3182	$1.50	$0.90	$0.80
3 Wire Small	5A	380VAC	HM3183	$1.50	$0.90	$0.80
3 Wire Large	30A	250VAC	HM3185	$1.90	$1.40	$1.20

Header/ Terminal Blocks - PCB Mount

PCB SPRING TERMINAL BLOCKS

These PCB terminal blocks retain the wire securely by a spring type clamp. The wire is held very securely but can be quickly released by depressing a release lever. The wire can be inserted/released indefinitely with virtually no deterioration of the contact/spring assembly. Both 2 & 3 poles are available and the housing of each is dove tailed to stack together and make any number of poles.

- Pitch: 5.0mm
- Housing material: PA66
- Contact/spring assembly: Stainless Steel
- Will accept wires from 22-14AWG

SPECIFICATIONS	BOTH
Current Rating	12.0A @ 300VAC
Temperature Rating	-40 to +105°C
Power Rating	5kV rated / 250VAC Cat III
Dimensions	2-Way: 10(L) x 13(W) x 15(H)mm 3-Way: 15(L) x 13(W) x 15(H)mm

HM3140 HM3142

Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	12A	HM3140	$2.90	$2.40	$2.10
3 Way	12A	HM3142	$3.90	$3.10	$2.90

PCB MOUNT SCREW TERMINALS - 5MM

Ideal for those situations where wires leave a PCB. Just solder the terminal strip to the PCB and connect wires. 2 way (HM3172) and 3 way (HM3173) are interlocking, so you can make up whatever size you require using these - see 6 way pictured.

- 8A rated
- Wire protected by compression plate
- Join together to make 6 way

Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	8A	HM3172	$1.50	$1.20	$1.10
3 Way	8A	HM3173	$1.90	$1.60	$1.40

WEIDMULLER PCB MOUNT SCREW TERMINALS - 5.08MM

These are 5.08mm spacing, come in 2 & 3 way, are interlocking & orange in colour.

- 10A rated

HM3132

Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	10A	HM3130	$1.50	$1.20	$1.10
3 Way	10A	HM3132	$1.90	$1.60	$1.40

LED STRIP CONNECTORS

Handy 2 pin joiners and power leads to make installing your LED strips neater an easier. Joiners available in straight, elbow & T-shape.

LED strip not included.

Type	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Pin Joiner (4 Pack)	ZD0644	$5.60	$5.00	$4.40
2 Pin Joiner Elbow (2 Pack)	ZD0646	$4.50	$4.05	$3.60
2 Pin Joiner T-Shape	ZD0648	$5.60	$5.00	$4.45
2 Pin to 2.1mm DC Socket	ZD0640	$7.90	$7.10	$6.30
2 Pin to Bare Leads	ZD0642	$3.30	$2.90	$2.60

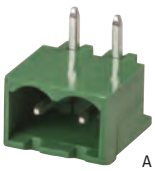
For next day delivery, or Click and Collect, see page 5

Headers / Terminal Blocks - PCB Mount CONTINUED

5.08MM HIGH QUALITY PLUGABLE TERMINAL BLOCKS/HEADERS

Available in both horizontal-plug and vertical-plug versions, these quality headers simply solder to a PC board and are for the Plugable Terminal Blocks (see below).

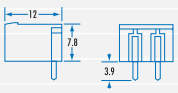
- Made from Polyamide66 plastic (UL94V-0)
- 1.0mm tin-plated brass solder pins
- Excellent current and insulation characteristics


A

B

C

SPECIFICATIONS	ALL MODELS
Current Rating	12.0A @ 300VAC
Insulation Withstands Volt	2000VAC min
Insulation Resistance	>5000MΩ 500VDC
Pcb Hole Diameter	1.5mm
Pitch	5.08mm (0.200 inch)



The plug version to suit the above headers - these terminal blocks are easily plugged in, and feature nickel-plated brass cage clamps, tin-plated phosphor bronze contacts, M3 nickel-plated steel screws.

HORIZONTAL PC MOUNT (PIC A)

Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3102	$1.50	$0.99	$0.90
3	HM3103	$1.90	$1.70	$1.50
4	HM3104	$2.50	$2.00	$1.80
6	HM3106	$3.90	$3.10	$2.70
8	HM3108	$4.90	$4.10	$3.70

VERTICAL PM MOUNT PLUGABLE HEADERS (PIC B)

Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM3112	$1.50	$0.99	$0.90
3	HM3113	$1.90	$1.70	$1.50
4	HM3114	$2.50	$2.00	$1.80
6	HM3116	$3.90	$3.10	$2.70
8	HM3118	$4.90	$4.10	$3.70

SCREW TERMINAL SOCKETS (PIC C)

Poles	WIDTH (MM)	Cat.	Qty 1+	Qty 4+	Qty 10+
2	11.40	HM3122	$2.90	$2.40	$2.10
3	16.40	HM3123	$4.50	$3.70	$3.40
4	21.40	HM3124	$5.90	$5.20	$4.70
6	31.40	HM3126	$8.90	$7.90	$6.90
8	41.40	HM3128	$11.90	$10.70	$9.50

Terminal Barriers

SURFACE MOUNT SCREW TERMINAL STRIPS

These units feature the ability to terminate 2 or 3 sets of wires securely with the option of changing or adding connections. In classic barrier strip fashion there is a comprehensive fence between each terminal. Each sturdy block has 2 x 4mm mounting holes at each end and an insulating body with high impact plastic. Two models available.

- 25A rated

HM3169

Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	25A	HM3167	$3.90	$3.30	$2.90
3 Way	25A	HM3169	$4.70	$4.10	$3.70

PLUG/SOCKET TERMINAL STRIP

Semi permanent connection up to 12 poles.

- Reliable screw down termination
- 10A per pole
- Supplied as a matching pair
- A great multiple auto / marine connector for low voltage
- Not for 240V

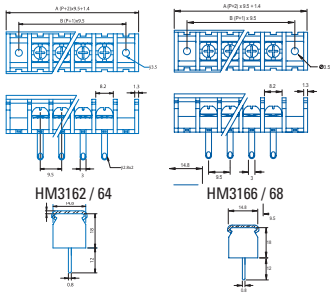
Current	Cat.	Qty 1+	Qty 4+	Qty 10+
10A	HM3202	$15.90	$13.70	$12.30

TERMINAL BARRIERS - TRANSPARENT COVERS

SPECIFICATIONS	ALL MODELS
Pitch	9.5mm
Barrier Material	Thermoplastic (UL-94V-0), Black
Terminals	Tin Plated Brass (Standard)
Screws	Nickel Plated Steel
Wire AWG	12-22 STR
Rating	25 Amp, 300VAC
Cover Material	PC
Insulation Withstands Voltage	AC 2000V/Min
Insulation Resistance	500Mohm or more at 500V

PC MOUNT

Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	25A	HM3162	$4.90	$4.10	$3.70
6 Way	25A	HM3164	$6.90	$5.70	$5.20


HM3162 / 64
HM3166 / 68

HM3162/64
HM3166/68

PANEL MOUNT

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	HM3166	$4.90	$4.10	$3.70
6 Way	HM3168	$6.90	$5.70	$5.20

TERMINAL STRIPS - IMPROVED QUALITY

Still 12 way and capable of being divided with a sharp knife, however, the screw retention is much sturdier. Each terminal block has a mounting hole on a fixed pitch.

- Material: Polyamide 66 (nylon) / UL94V-2 flame retardant
- Temperature: -35°C to 110°C
- Voltage: 250-450V
- Colour: Natural

Current	Cable Dia.	Length	Pitch	Cat.	Qty 1+	Qty 4+	Qty 10+
6A	3.3mm	114.5mm	10mm	HM3194	$2.20	$1.80	$1.60
10A	4.2mm	128.8mm	11mm	HM3196	$2.50	$2.00	$1.80
15A	4.5mm	136.8mm	12mm	HM3200	$3.30	$2.70	$2.40

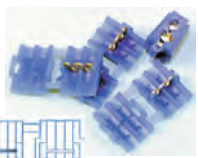
Current	Cable Dia.	Length	Pitch	Cat.	Qty 1+	Qty 4+	Qty 10+
30A	5.6mm	164.5mm	15mm	HM3198	$3.50	$2.90	$2.60
60A	6.6mm	193mm	16.3mm	HM3204	$5.90	$5.20	$4.70

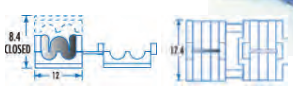
Contact & Quick Splice Connectors

CONTACT CONNECTORS

Simply wrap around the existing wire and new wire & squeeze. Connector cuts through insulation and makes contact without damaging the conductor. Fully insulated once on.

- 5A rated





Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP1206	$2.50	$2.10	$1.90

QUICK SPLICE CONNECTORS

Simply insert your wires and squeeze it closed to connect and crimp. Quick, easy, and secure. Nylon insulation rated to 105oC

- 5A rated

A B C

ID	Type	PK	Cat.	Qty 1+	Qty 4+	Qty 10+
A	22-18AWG	6	PT4537	$3.50	$3.00	$2.70
B	16-14AWG	6	PT4637	$3.50	$3.00	$2.70
C	12-10AWG	6	PT4737	$3.50	$3.00	$2.70

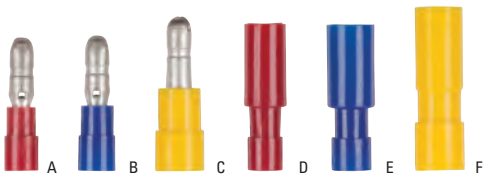
Standard Quick Connectors

NYLON INJECTION MOULDING

Unlike the majority of quick crimp connectors available on the market, our range of standard quick connectors are made with a nylon injection moulded insulation as opposed to the heat shrunk vinyl insulation most others feature. The injection-moulded nylon insulation is temperature rated to 105°C, and features a moulded funnel taper in the insulation for easy cable entry.
MOST BULLET, SPADE LUG & FORK CONNECTORS CAN BE SAFELY RATED FOR 10 AMPS.

BULLETS

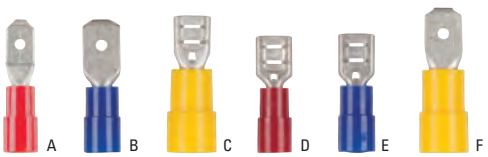
- Red: Cable entry size 4.3mm Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm Wire size 1.5 - 2.5mm dia
- Yellow: Cable entry size 6.6mm Wire size 4 - 6mm dia



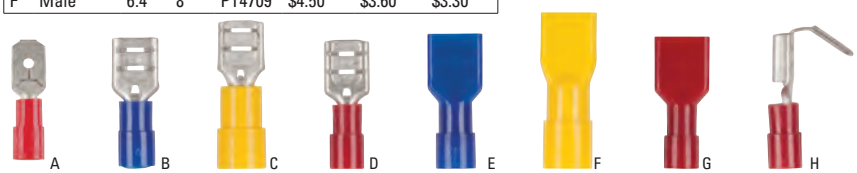
ID	Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Male	4	8	PT4500	$4.50	$3.70	$3.30	50	PT4501	$11.90	$10.70	$9.50
B	Male	4	8	PT4600	$4.50	$3.70	$3.30	100	PT4601	$19.90	$17.70	$15.70
C	Male	4	8	PT4700	$4.50	$3.90	$3.60	100	PT4701	$23.90	$20.90	$18.70
D	Female	4	8	PT4502	$4.50	$3.70	$3.30	50	PT4503	$11.90	$10.70	$9.50
E	Female	4	8	PT4602	$4.50	$3.70	$3.30	100	PT4603	$19.90	$17.70	$15.70
F	Female	4	8	PT4702	$4.50	$3.90	$3.60	100	PT4703	$23.90	$20.90	$18.70

SPADES

- Red: Cable entry size 4.3mm Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm Wire size 1.5 - 2.5mm dia
- Yellow: Cable entry size 6.6mm Wire size 4 - 6mm dia



ID	Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Male	4.8	8	PT4518	$3.50	$2.90	$2.60	100	PT4610	$18.90	$16.70	$14.70
B	Male	6.3	8	PT4609	$3.50	$2.90	$2.60	100	PT4721	$24.90	$22.50	$19.70
C	Female	4.8	8	PT4722	$4.50	$3.60	$3.30	50	PT4524	$18.90	$16.90	$14.90
D	Female	4.8	8	PT4522	$3.50	$2.90	$2.60	100	PT4621	$18.90	$16.70	$14.70
E	Female	4.8	8	PT4622	$3.50	$2.90	$2.60	100	PT4710	$24.90	$22.50	$19.70
F	Male	6.4	8	PT4709	$4.50	$3.60	$3.30					



ID	Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Male	6.4	8	PT4509	$3.50	$2.90	$2.60	100	PT4512	$16.90	$14.90	$13.30
B	Female	6.4	8	PT4607	$3.50	$2.90	$2.60	100	PT4608	$19.90	$17.70	$15.70
C	Female	6.8	8	PT4707	$3.50	$2.90	$2.60	100	PT4708	$23.90	$20.90	$18.70
D	Female	6.8	8	PT4507	$3.50	$2.90	$2.60	100	PT4513	$16.90	$14.90	$13.30
E	Female	6.4	8	PT4625	$3.90	$3.10	$2.70	50	PT4626	$11.90	$10.70	$9.50
F	Female	6.8	8	PT4725	$4.50	$3.90	$3.60	50	PT4726	$17.90	$16.10	$14.30
G	Female	6.8	8	PT4525	$3.50	$2.90	$2.60	50	PT4526	$11.90	$10.70	$9.50
H	Piggyback	6.4	8	PT4510	$3.50	$2.90	$2.60	100	PT4511	$18.90	$16.90	$14.90

EYE, FORK, BUTT & BLADES

- Red: Cable entry size 4.3mm / Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm / Wire size 1.5 - 2.5mm dia
- Yellow: Cable entry size 6.6mm / Wire size 4 - 6mm dia

ID	Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Eye	8	PT4514	$3.50	$2.90	$2.60	100	PT4515	$18.90	$16.90	$14.90
B	Eye	8	PT4614	$3.50	$2.90	$2.60	100	PT4615	$18.90	$16.70	$14.70
C	Eye	8	PT4714	$4.50	$3.90	$3.60	100	PT4715	$24.90	$22.50	$19.70
D	Fork	8	PT4523	$3.50	$2.90	$2.60	100	PT4529	$18.90	$16.90	$14.90
E	Fork	8	PT4623	$3.50	$2.90	$2.60	100	PT4624	$18.90	$16.70	$14.70
F	Fork	8	PT4723	$4.50	$3.90	$3.60	100	PT4724	$24.90	$22.50	$19.70
G	Butt	8	PT4527	$3.50	$2.90	$2.60	100	PT4528	$18.90	$16.90	$14.90
H	Butt	8	PT4627	$3.50	$2.90	$2.60	100	PT4628	$18.90	$16.70	$14.70
I	Butt	8	PT4727	$4.50	$3.90	$3.60	100	PT4728	$24.90	$22.50	$19.70
J	Blade	8	PT4516	$3.50	$2.90	$2.60	100	PT4517	$18.90	$16.90	$14.90
K	Eye	8	PT4618	$3.50	$2.90	$2.60	8	PT4718	$4.50	$3.90	$3.60

LARGE SPADE QUICK CONNECTORS

- Spade socket
- 9.5mm
- Pack of 4

Suits 60A horn relay SY4074

Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
4	PT4717	$4.90	$4.10	$3.70

FERRULE CRIMP CONNECTORS

- pack of 20

ID	SIZE	Cat.	Qty 1+	Qty 4+	Qty 10+
A	0.75mm²	PT4433	$3.90	$3.30	$2.90
B	1.50mm²	PT4533	$3.90	$3.30	$2.90
C	2.5mm²	PT4633	$3.90	$3.30	$2.90

QUICK CONNECT PACK

A box of all the standard 1/4" (6.35mm) QC tabs and receptacles, but also the odd QC sizes ie: 3.3mm and 4.8mm sizes. Total 160 pieces.

Includes the following:

- 10 x 6.4mm female crimp spade lugs wire dia 1.8mm
- 10 x 6.4mm female crimp spade lugs wire dia 3.5mm
- 10 x Close end wire crimpers - dia 2.6mm
- 10 x Close end wire crimpers - dia 3.8mm
- 5 x Contact wire connectors
- 10 x Female bullet connectors - insulated
- 10 x Male bullet connectors - insulated
- 5 x 3 way spade lug connectors 6.8mm
- 5 x spade piggyback connectors 6.8mm
- 10 x 4.9mm female spade lugs
- 10 x 8.4mm hole dia ring terminals
- 10 x 5.7mm hole dia ring terminals
- 10 x 5.3mm hole dia spade terminals
- 10 x 4.3mm hole dia spade terminals
- 5 x 3.5mm dia butt connectors
- 5 x 2.3mm dia butt connectors
- 5 x 1.8mm dia butt connectors
- 10 x 3.3mm spade connectors (tweeter connectors)
- Beware of others with less than 160 pieces

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
160 Pieces	PT4530	$27.90	$24.70	$21.90

attention educators! can we help?

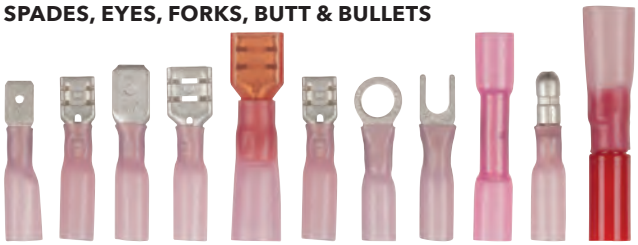
If you're a parent or teacher and would like some practical resources or help, then your local Jaycar Store or Stockist can assist you with a wide range of learning projects for all ages.

For next day delivery, or Click and Collect, see page 5

Self Sealing Quick Connectors

The unique heat sensitive sealing gel in these quick connectors will automatically flood the crimp joint with sealant as the heat-shrink sleeve is heated. The resulting crimp connection is water and corrosion resistant and has good strain relief properties. 11 styles to choose from.

SPADES, EYES, FORKS, BUTT & BULLETS



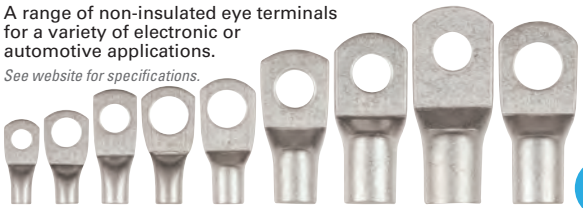
ID	Type	Size	Current (DC)	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Male	4.8mm	5A	PT4818	$7.90	$7.20	$6.50
B	Female	4.8mm	5A	PT4822	$7.90	$7.20	$6.50
C	Male	6.4mm	10A	PT4809	$7.90	$7.20	$6.50
D	Female	6.4mm	10A	PT4807	$7.90	$7.20	$6.50
E	Female Ins.	6.4mm	10A	PT4825	$8.90	$7.90	$6.90
F	Piggyback	6.4mm	10A	PT4810	$8.90	$7.90	$6.90
G	Eye	5.3(ID)/8.0(OD)	5A	PT4814	$7.90	$7.20	$6.50
H	Fork	3.7(ID)/5.7(OD)	3A	PT4823	$7.90	$7.20	$6.50
I	Butt	4.7	5A	PT4827	$8.90	$7.90	$6.90
J	Male	4	5A	PT4800	$7.90	$7.20	$6.50
K	Female	4	5A	PT4802	$8.90	$7.90	$6.90

Eye Terminals

NON-INSULATED EYE TERMINALS

A range of non-insulated eye terminals for a variety of electronic or automotive applications.

See website for specifications.



ID	Hole	Cable entry	PK	Current (DC)	Cat.	Qty 1+	Qty 4+	Qty 10+
A	4mm	2.5mm²	8	20A	PT4930	$3.50	$3.00	$2.70
B	6mm	4mm²	8	30A	PT4932	$3.50	$3.00	$2.70
C	6mm	6mm²	8	35A	PT4934	$3.50	$3.00	$2.70
D	8mm	6mm²	8	35A	PT4935	$3.50	$3.00	$2.70
E	8mm	10mm²	8	40A	PT4936	$4.50	$3.70	$3.40
F	8mm	25mm²	4	50A	PT4937	$4.90	$4.30	$3.90
G	8mm	35mm²	4	60A	PT4938	$7.90	$7.20	$6.50
H	8mm	50mm²	2	100A	PT4939	$6.90	$6.20	$5.50
I	10mm	35mm²	2	120A	PT4940	$8.50	$7.65	$6.80

product data

We have so much data and fact sheets we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

Cable Connectors

CRIMP WIRE CONNECTORS

The easy way to connect 2 or 3 wires together. Simply insert into the connector, & squeeze with a pair of pliers. They are filled with sealant to provide moisture resistance. Accepts cable up to 1.08mm OD.

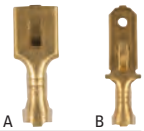
- 5A rating

Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
(6 x 2 wire) & (2 x 3 wire)	8	HP1214	$5.90	$5.20	$4.70
2 Wire	50	HP1270	$13.90	$12.30	$10.90
3 Wire	50	HP1272	$17.90	$15.90	$14.30

Crimp Connectors

NON-INSULATED SPADE CONNECTORS

More Crimping Tools on pages 213



ID	Type	Size	PK	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Socket	6.3mm	10	10A	PT4630	$3.50	$3.00	$2.70
B	Plug	6.3mm	10	10A	PT4631	$3.50	$3.00	$2.70

6.3MM PCB MOUNT PCB SPADE CONNECTORS

Commonly used to connect power to a PCB board. They work perfectly with 6.3mm female spade connectors.

- PCB tag: 6.3mm
- Pitch: 5mm
- Current rating: 30A
- Thickness: 0.81mm

Type	Size	PK	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
PCB Mount	6.3mm	8	10A	PT4914	$3.60	$3.15	$2.90

6.3MM CHASSIS MOUNT DOUBLE SPADE

Pack of 8 pieces of 6.3mm chassis mount double spade connectors.

- Double Ended 6.3mm
- Chassis Mounting Hole: 4(Dia.)mm

Type	Size	PK	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
Chassis	6.3mm	8	10A	PT4916	$3.60	$3.15	$2.90

PHONE TYPE CRIMP LUGS

Brass Spade width - 3.2mm

- Cable entry 2.5mm

PT4521

Pack	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
15	3A	PT4520	$3.90	$3.10	$2.70
100	3A	PT4521	$15.90	$13.70	$12.30

Crimp Connector Packs

AUTOMOTIVE CRIMP TOOL WITH 80 CONNECTORS

The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts.

- 8 each of male & female blue bullets
- 8 each of male & female blue spades
- 8 x red eye connectors
- 8 each of male & female red bullets
- 8 each of male & female red spades
- 8 x blue butt joiners

Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
80 Pieces	TH1848	$18.90	$16.90	$14.90

300 PIECE QC CRIMP CONNECTOR PACK

Contains 300pcs of only the most commonly-used quick connectors from our range of separately sold QC connectors. The insulation is injection-moulded Nylon rated to 105oC, with a moulded funnel taper in the insulation for easy cable entry. Beware of other QC connector packs that contain cheap vinyl connectors.

Pack contains (300pcs in total):

RED - FOR 0.75 - 1.0MM CABLE

- 20 x female/20 x male bullet
- 20 x 4mm/20 x 5mm ring
- 20 x 4mm fork/ 25 x female spade
- 25 x male spade/ 10 x cable joiner

BLUE - FOR 1.5 - 2.5MM CABLE

- 15 x female/20 x male bullet
- 20 x 4mm/10 x 6mm ring
- 25 x female/25 x male spade
- 10 x cable joiner

YELLOW - FOR 4-6MM CABLE

- 5 x 5mm/5 x 6mm ring 5 x cable joiner

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
300 Pieces	PT4536	$48.90	$44.00	$39.10

Gold Plated Large-Gauge Terminals

GOLD PLATED HIGH CURRENT CABLE JOINERS

If you have ever tried to connect, crimp or solder 8GA or even 4GA cable you will understand how convenient these gold-plated brass connectors are. Each cable termination is via gold grub screws and joiner is supplied with small transparent insulating heatshrink tube.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Suit 8GA cable	HC4065	$9.90	$8.50	$7.50
Suit 4GA cable	HC4064	$9.90	$8.50	$7.50

GOLD PLATED TERMINALS

Supplied in pairs. 1 red and 1 black

8GA QC GOLD CONNECTORS SMALL EYE

SPECIFICATIONS	PT4560
Hole Size	3.7mm
Cable Hole Diameter	4.8mm
Size Including Cover	35mm
Metal Thickness	1mm

AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4560	$3.50	$2.90	$2.60

8GA QC GOLD CONNECTORS LARGE EYE

Suits thinner cable (8GA):

SPECIFICATIONS	PT4562
Hole Size	8.4mm
Cable Hole Dia	4.8mm
Size Including Cover	42mm

AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4562	$3.90	$3.10	$2.70

4GA QC GOLD CONNECTORS LARGE EYE

Suits Large Cable (4GA)

SPECIFICATIONS	PT4564
Hole Size	8.4mm
Cable Hole Dia	8mm
Size Including Cover	50mm
Metal Thickness	1.5mm

AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4564	$4.90	$4.10	$3.70

2GA QC GOLD CONNECTORS EYE

Suits 2GA cable.

SPECIFICATIONS	PT4565
Eye Hole Size	12.7mm
Cable Hole Dia.	9.6mm
Size Including Cover	60mm
Metal Thickness	1.5mm

AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4565	$7.90	$7.20	$6.50

0GA QC GOLD CONNECTORS EYE

Suits thick cable (0GA)

SPECIFICATIONS	PT4567
Hole Size	8.4mm
Cable Hole Dia	11.8mm
Size Including Cover	60mm
Metal Thickness	1.6mm

AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4567	$8.90	$7.90	$6.90

8GA QC GOLD CONNECTORS FORKED SPADE TERMINALS

Suits thinner cable (8GA)

SPECIFICATIONS	PT4566
Hole Size	3.7mm
Cable Hole Dia	4.8mm
Size Including Cover	33mm

AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4566	$3.90	$3.10	$2.70

8GA QC CONNECTORS FORKED SPADES

Standard quick connect lugs that fit speaker terminals etc.

- Cable hole diameter - 3.7mm

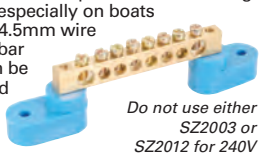
AMP-KING

Sold as a Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT4568	$3.00	$2.60	$2.30

Bus Bars

8 WAY 100A MACHINED BRASS BUS BAR

These are usually used to give an electrically common point for earth wiring but are also useful for low voltage tie points, especially on boats or RV's, Caravans etc., 6 holes accept up to a 4.5mm wire bundle and the outer 2 a 6.0 bundle. The Bus bar has insulated standoffs at each end which can be removed so that the assembly can be screwed directly to a chassis. The standoffs have a conservative insulation rating of 1000V.



Do not use either SZ2003 or SZ2012 for 240V

- All screws M4.0 Brass bar 9.0 x 6.0
- Length overall including standoffs: 100mm, without standoffs: 65mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ2003	$8.90	$7.70	$6.70

10 WAY 150A INSULATED BUS BAR

This quality bus bar features a raised insulating base that isolates the bus bar from earthed or other live chassis. It features 2 x 5mm bolted terminals for connecting main power feeds, and 10 screw terminals for connecting lower current feeds of up to 10A each. Total current capacity is 150A, and is suitable for 12-32V wiring. 2 countersunk screw holes for 5mm metric fasteners.

Do not use either SZ2003 or SZ2012 for 240V

- Not suitable for 240V active circuit
- Dimensions: 145(L) x 30(W) x 40(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ2012	$20.90	$18.80	$16.70

Gold Power Distribution Blocks

100A GOLD POWER DISTRIBUTION BLOCK

This block will accept one 4GA wire in, and distribute to four 8GA out.

- Size includes mounting bracket

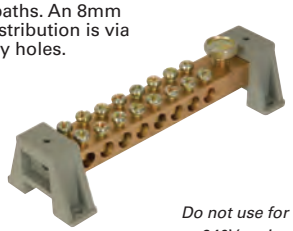
AMP-KING

	Cat.	Qty 1+	Qty 4+	Qty 10+
63(L) x 50(W) x 12(H)mm	HC4020	$15.90	$13.70	$12.30

16 WAY 300A BRASS DISTRIBUTION BAR

An ideal way to distribute high current paths. An 8mm stud provides for incoming cable and distribution is via 16 screw terminals with 7mm cable entry holes.

- Solid brass with high quality plastic bridge mounts
- Rated for 100A per circuit
- Up to 300A total circuit capability



Do not use for 240V mains

AMP-KING

	Cat.	Qty 1+	Qty 4+	Qty 10+
112(L) x 18(W) x 12(H)mm	SZ2004	$11.90	$10.70	$9.50

For next day delivery, or Click and Collect, see page 5

Anderson® Type Connectors

Used widely in both domestic & industry, you'll find these used in many 4WD, boating, automotive and other industry applications. Supplied individually with a pair of contacts, all 5 current ratings have an operating temperature of -20° to +120°C.

INDIVIDUAL NESTING CONNECTORS

They are genderless which means that there is no separate plug and socket and can be easily stacked to make custom configurations. Supplied as a red & black pair with contacts.

- Voltage: 600V (AC or DC)

SPECIFICATIONS	PT4402	PT4405
Contact Rating	15A	30A
Contact Wire Size	0.52-1.3mm2 (20-16AWG)	1.63-2.59mm (10-14AWG) closed barrel
Max Wire Insulation Dia	2.54mm	4.4mm
Contact Retention Force	9kg (20lbs)	9kg (20lbs)
Operating Temperature	-20 to + 105˚C	-40 to +125˚C

SPECIFICATIONS	PT4406	PT4407
Contact Rating	45A	75A
Contact Wire Size	1.63-2.59mm (10-14AWG) closed barrel	1.3mm - 13mm (6 - 16AWG)
Max Wire Insulation Dia	4.4mm	1.3 - 13.3mm
Contact Retention Force	9kg (20lbs)	22kg (50lbs)
Operating Temperature	-40 to +125˚C	-40 to +125˚C

Cable AWG	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
20-16	15A	PT4402	$5.30	$4.75	$4.20
10-14	30A	PT4405	$5.90	$5.20	$4.70
10-14	45A	PT4406	$6.90	$5.90	$5.50
6-16	75A	PT4407	$15.90	$14.30	$12.70

ANDERSON 35A SBS MINI CONNECTORS

These compact mini connectors can handle up to 600V continuous in AC or DC with current up to 35A. The mechanical & colour coded keys protect against accidental cross mating of connectors. The genderless housing makes for easy assembly and the touch-safe housing prevents accidental exposure to live circuits and these also have the ability to disconnect under load. Supplied as a moduled 2 pole with contacts.

- All colours have the same electrical rating

PT4480

PT4484

SPECIFICATIONS	PT4480	PT4482	PT4484
Housing Colour	Black	Red	Grey
Contact Rating	35A	35A	35A
Contact Wire Size	10 AWG	10 AWG	10 AWG
Voltage Rating	600 (AC or DC)	600 (AC or DC)	600 (AC or DC)
Max Wire Insulation	4.0mm2	4.0mm2	4.0mm2
Operating Temp.	-20°C to 105°C	-20°C to 105°C	-20°C to 105°C
Anderson Part No	B02265G2	B02265G1	B02265G4

	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	35A	PT4480	$10.90	$9.70	$8.90
Red	35A	PT4482	$10.90	$9.70	$8.90
Grey	35A	PT4484	$10.90	$9.70	$8.90

ANDERSON POWERPOLE SERIES 4 PIN DATA CONNECTOR

A genderless 4 pole signal Anderson connector in a PP15 casing. The design allows you to stack this with the PP15 series 15A Anderson connector (PT4402) for DC and signal wiring connectivity. It provides a secure quick disconnect for power and signal distribution systems.

- Voltage: 300V
- Up to 24 gauge for signal wire connectivity
- Dimensions: 25(L) x 8(W) x 8(H)mm

	Current	Cat.	Qty 1+
Stackable	7A	PT4403	$18.90

find out more in store

Our staff offer friendly and helpful service. We're here to help.

4 WAY 15A ANDERSON CONNECTORS

These are the high impact and corrosion-resistant black thermoplastic outer shells with a 4 way 15A Anderson® multi-connectors. They allow easy connection and disconnection for the electrical equipment in commercial and industrial applications. The cable clamps provides strain relief and integral latches to prevent any accidental disconnections of your equipment. The positive latching provides security in applications where shock or vibration may be severe and the integral strain relief to reduce the risk of wire breakage.

4 WAY 15A - PT4434

- Dimensions: 53(L) x 32(W) x 22(H)mm

4 WAY 15A WITH LATCH - PT4436

- Dimensions: 53(L) x 32(W) x 22(H)mm

	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Way	15A	PT4434	$17.90	$16.10	$14.30
4 Way with Latch	15A	PT4436	$17.90	$16.10	$14.30

ANDERSON 50A HIGH CURRENT CONNECTORS

Used widely in both domestic and industry, you'll find this connector in many 4WD applications, boating, automotive and other industries. Supplied as a moulded 2 pole with contacts.

SPECIFICATIONS	PT4425	PT4427	PT4420
Contact Rating	50A		
Contact Wire Size	8 AWG	12-10 AWG	13.3mm2 (6 AWG)
Voltage Rating	600V (AC or DC)		
Max Wire Insulation Diameter	11mm		
Contact Retention Force	22kg		
Operating Temperature	-20 to +105˚C		
Anderson Part No.			SB50-6319

Cable AWG	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
8	50A	PT4425	$11.90	$10.70	$9.50
12-10	50A	PT4427	$11.90	$10.70	$9.50
6	50A	PT4420	$11.90	$10.70	$9.50

120/175AMP VERSIONS OF ABOVE

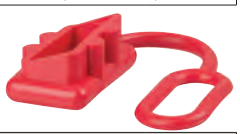
The ultimate in high current connectors as used in electric forklift trucks, electric welders and high current auto/marine use.

SPECIFICATIONS	PT4422	PT4424
Contact Rating	120A	175A
Contact Wire Size	3.6mm2 (#2 AWG)	53.5mm2 (#1/0 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Diameter	14.6mm	19mm
Contact Retention Force	45.5kg (100lb)	137kg (300lb)
Operating Temperature	-20 to +125˚C	-20 to +125˚C
Anderson Part No.	B120-6800G1	SB175-6325G1

Cable AWG	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
2	120A	PT4422	$24.90	$22.30	$19.70
1/10	175A	PT4424	$39.90	$35.90	$31.90

DUST/WATER RESISTANT RUBBER COVERS

A water and dust resistant rubber cover to suit our Anderson style connectors.



Suits	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
PT4420/25/27	50A	PM4434	$8.90	$8.00	$7.10
PT4422	120A	PM4432	$16.90	$14.90	$13.90
PT4424	175A	PM4430	$19.90	$17.90	$15.90

HANDLES FOR ANDERSON STYLE CONNECTORS

Facilitates easy connection/ disconnection. Ensures a secure grip, even with gloved hands for easier charging of electric forklifts etc.

Suits Anderson Style Connectors

50A	CAT. PT4420	CAT. PM4436
120A	CAT. PT4422	CAT. PM4438
175A	CAT. PT4424	CAT. PM4439

PM4438

Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
PT4420/25/27	PM4436	$6.90	$6.20	$5.50
PT4422	PM4438	$8.90	$8.00	$7.10
PT4424	PM4439	$22.90	$20.90	$17.90

Anderson® Type Connectors CONTINUED

This new range enables you to chassis or panel mount Anderson plugs. Something you have not been able to do in the past. There are also waterproofing boots, etc.

50A CHASSIS MOUNT ANDERSON ADAPTORS

Black 50 amp cover assembly with locking device and UV insulated protection to suit Anderson & Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe & reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
50A	PT4460	$24.90	$22.50	$19.70

175A CHASSIS MOUNT ANDERSON ADAPTORS

Black 175 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
175A	PT4464	$34.90	$31.90	$27.90

50 AMP CONNECTOR COVER ASSEMBLY QUICKFIT

Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
50A	PT4466	$31.90	$28.70	$25.50

50A RED CHASSIS MOUNT ANDERSON ADAPTORS

Red 50 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
50A	PT4470	$24.90	$22.50	$19.70

PANEL MOUNT ANDERSON CONNECTOR

Flush mount Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT4472	$29.90	$27.00	$23.70

DUSTPROOF RUBBER BOOT FOR 50A ANDERSON MOUNTS

Rubber sleeve for water, dust and UV protection of Anderson style connectors.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT4474	$4.90	$4.40	$3.90

WATERPROOF ANDERSON CONNECTORS

These soft shell boots provide water, dirt, chemical and UV protection for the high current Anderson connectors. The durable boots shield the connectors from water and dirt to IP64 when connected or by itself when the integral cover is used. The terminals of the rubber boot can also be customised to fit cables in-between 12-6 AWG (4-16mm2) wires.

- IP64 protection
- Resistant to UV, Roadway Chemical and Ozone
- Splash resistant when connected and by itself when the integral cover is used
- Customise boot terminals to fit your cables from 12-6 AWG which is 4-16mm2
- Mountable

Dimensions when connected: 151(H) x 55(W) x 160(L)mm

50A LOAD RUBBER BOOT

- 85(H) x 55(L) x 20(W)mm

Cat. PT4428

50A SOURCE RUBBER BOOT

- 85(H) x 55(L) x 20(W)mm

Cat. PT4429

120A BOOT LOAD SIDE

- 112(H) x 57(L) x 39(W)mm

Cat. PT4431

120A BOOT SOURCE SIDE

- 118(H) x 59(L) x 39(W)mm

Cat. PT4432

175A BOOT LOAD SIDE

- 135(H) x 77(L) x 42(W)mm

Cat. PT4438

175A BOOT SOURCE SIDE

- 135(H) x 68(L) x 42(W)mm

Cat. PT4439

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Boots to Suit 50A Male	PT4428	$19.90	$17.90	$15.90
Boots to Suit 50A Female	PT4429	$20.90	$18.80	$16.70
Boots to Suit 120A Male	PT4431	$29.90	$26.90	$23.90
Boots to Suit 120A Female	PT4432	$29.90	$26.90	$23.90
Boots to Suit 175A Male	PT4438	$29.90	$26.90	$23.90
Boots to Suit 175A Female	PT4439	$36.90	$33.20	$29.50

50A ANDERSON PLUG TO INSULATED BATTERY CLAMPS

Tough insulated battery clamps connected to an Anderson plug. Ideal for connecting a solar panel, portable fridge, compressor, or inverter to a battery.

- 8 AWG cable/ 50A rated
- Insulated battery clamps
- Length: 300mm

Length	Cat.	Qty 1+	Qty 10+	Qty 50+
300mm	PT4449	$29.90	$26.90	$23.90

HIGH CURRENT 60A LEADS

A series of high current connector leads for automotive, caravan, 4WD or industrial interconnection. The design of the Anderson connector housing is genderless, whereby each connector simply interconnects with another so you can't plug them in the wrong way - one less thing to worry about! Each lead is pre-made with machine crimped terminations, and tinned copper cable. Connectors are rated at 50Amps, with either 8AWG cable or 16AWG cable fitted depending on the model.

Anderson To:	Length	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Extension Lead	5m	PT4440	$99.90	$89.90	$79.90
Piggyback Lead	300mm	PT4442	$46.90	$42.40	$37.40
Eye Terminal Lead	300mm	PT4444	$19.90	$17.90	$15.90
Cigarette Plug Lead	300mm	PT4446	$22.90	$20.30	$17.90
Cigarette Socket Lead	300mm	PT4448	$22.90	$20.30	$17.90
2 x Cigarette Socket Lead	300mm	PT4447	$28.90	$25.90	$22.90

For next day delivery, or Click and Collect, see page 5

DC Plugs, Sockets & Adaptors

LINE PLUGS
LINE - FEMALE PLASTIC

9.5mm Shaft Length	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7(ID) x 2.5(OD)mm	1.0A	PP0503	$2.50	$2.00	$1.80
1.0(ID) x 3.8(OD)mm	1.5A	PP0504	$2.50	$2.00	$1.80
1.3(ID) x 3.5(OD)mm	1.8A	PP0506	$2.50	$2.00	$1.80
1.6(ID) x 5.2(OD)mm	2.0A	PP0508	$2.50	$2.00	$1.80
1.7(ID) x 4.0(OD)mm	2.5A	PP0507	$2.50	$2.00	$1.80
1.7(ID) x 4.75(OD)mm	2.5A	PP0505	$2.50	$2.00	$1.80
2.1(ID) x 5.5(OD)mm	3.0A	PP0510	$2.50	$2.00	$1.80
10mm Shaft Length		**Cat.**	**Qty 1+**	**Qty 10+**	**Qty 50+**
2.5(ID) x 5.5(OD)mm	5.0A	PP0511	$2.50	$2.00	$1.80
3.1(ID) x 6.3(OD)mm	6.0A	PP0513	$2.50	$2.00	$1.80
14mm Shaft Length		**Cat.**	**Qty 1+**	**Qty 10+**	**Qty 50+**
2.1(ID) x 5.5(OD)mm	3.0A	PP0509	$2.50	$2.00	$1.80
2.5(ID) x 5.5(OD)mm	5.0A	PP0512	$2.50	$2.00	$1.80
Right Angle 9.5mm Shaft Length		**Cat.**	**Qty 1+**	**Qty 10+**	**Qty 50+**
2.1(ID) x 5.5(OD)mm	3.1A	PP0514	$3.50	$2.70	$2.40
Right Angle 14mm Shaft Length		**Cat.**	**Qty 1+**	**Qty 10+**	**Qty 50+**
2.5(ID) x 5.5(OD)mm	5.0A	PP0515	$3.50	$2.70	$2.40

LINE - FEMALE METAL BODY
- 9.5mm shaft

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	3A	PP0531	$4.50	$3.90	$3.60
2.5(ID) x 5.5(OD)mm	5A	PP0532	$4.50	$3.90	$3.60

2.1MM DC CONNECTORS
- 3.0A rated

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	3A	PA3711	$6.90	$6.20	$5.50
Socket - Screw Terminals	3A	PA3713	$6.90	$6.20	$5.50

ILLUMINATED POLARITY SENSING DC CONNECTORS

These detect and indicate the polarity of your power connections with integrated LEDs. The LED lights up blue for centre positive, red for centre negative or purple for AC voltage. They also shine brighter as voltage increases.
- 5-30 VAC/VDC range - 3A rated
- 1 metre lead length

Type	Current (DC)	Cat.	Qty 1+	Qty 2+	Qty 4+
Inline Plug	3A	WQ7288	$8.50	$7.60	$7.20
Inline Socket	3A	WQ7289	$9.90	$8.70	$8.20

WATERPROOF 2.1MM DC CONNECTORS WITH PIGTAIL LEADS

The same connector set fitted to our waterproof LED strip lights with standard 2.1(ID) x 5.5(OD)mm DC connection with an IP67 rated coupling. Supplied pre-fitted to a 100mm pigtail lead, allowing you to make up your own lead sets.
- Cables are 20AWG
- 3A max at 12VDC

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
Waterproof	3A	PS0785	$10.90	$9.70	$8.90

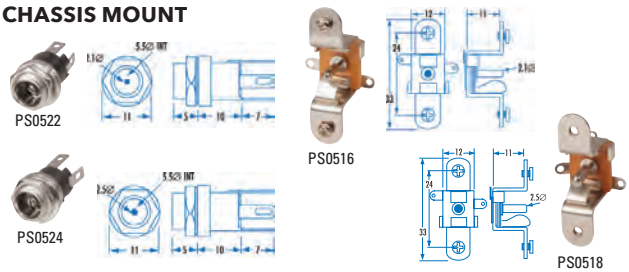
LINE SOCKETS
LINE - MALE
Plastic body

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS0526	$4.50	$3.60	$3.30
2.5mm	5.0A	PS0528	$4.50	$3.60	$3.30
1.00mm - Suits Nokia	500mA	PS0540	$2.90	$2.60	$2.30

LINE SOCKETS
LINE - MALE
Metal body

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS0534	$4.90	$4.10	$3.70
2.5mm	5.0A	PS0536	$4.90	$4.10	$3.70

CHASSIS MOUNT



Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm Chassis	3.0A	PS0516	$2.50	$2.10	$1.90
2.5mm Chassis	5.0A	PS0518	$2.50	$2.10	$1.90
2.1mm Bulkhead	3.0A	PS0522	$3.90	$3.30	$2.90
2.5mm Bulkhead	5.0A	PS0524	$3.90	$3.30	$2.90

SURFACE MOUNT MALE DC POWER CONNECTORS
SPST contacts

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS0519	$2.20	$1.95	$1.75
2.5mm	5.0A	PS0520	$2.50	$2.00	$1.80

0.7MM PCB MOUNT DC SOCKET WITH SPST SLIDE SWITCH

- Snap-in, PCB mounted 0.7mm DC power socket
- SPST black On/Off slide switch
- Electrical rating: 2A @ 15VDC
- Contact resistance: <30m ohm (max)
- Insulation resistance: 100M ohm (min)
- Electrical life: 30,000 cycles
- Dimensions: 15(L) x 10(W) x 14.6(D)mm

Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7mm PCB	2A	PS0532	$4.50	$4.00	$3.60

DC POWER ADAPTORS

	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
1.3mm Plug to 2.5mm Socket	1A	PA3700	$3.90	$3.10	$2.70
1.3mm Plug to 2.1mm Socket	1A	PA3702	$3.90	$3.10	$2.70
2.1mm Plug to 2.5mm Socket	1A	PA3704	$3.90	$3.10	$2.70
2.5mm Plug to 2.1mm Socket	1A	PA3706	$3.90	$3.10	$2.70
2.1mm Plug to 2.1mm Socket	3A	PA3701	$4.50	$3.60	$3.30
2.1mm Plug to 2.1mm Plug	3A	PA3707	$3.90	$3.10	$2.70

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Harsh Environment

IP67 RATED MULTIPLE POLE HARSH ENVIRONMENT CONNECTORS

C16-1 series connectors offer 3 or 6 pole with pre-engaging earth contact. The mating parts screw together securely to provide environmental protection to IP67.

SPECIFICATIONS	3 POLE + PE*	6 POLE + PE*
Current Rating	16A	10A
Voltage Rating	380VAC 450VDC	
Insulation Resistance	>10Gohms	
Contact Resistance	<5mohms	
Max Wire Size	2.5mm2	0.75mm2

6 POLE

	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP1000	$24.90	$22.40	$19.90
PE Line Socket	PS1001	$24.90	$22.40	$19.90
PE Chassis Plug	PP1002	$18.90	$16.90	$14.90
PE Chassis Socket	PS1003	$18.90	$16.90	$14.90
Plug Dust Cap	PP1004	$12.90	$11.30	$10.30

ENVIRONMENTAL	ALL MODELS
Temperature Range	-40°C to +100°C
Protection	IP67 to IEC60529/ DIN40050
Housing	Polyamide 66 Nylon
Strain Relief	Screw clamp & Gland Nut

Note:
** Means Pre-Engaging.*

HIRSCHMANN

3 POLE

	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP1006	$24.90	$22.40	$19.90
PE Line Socket	PS1007	$24.90	$22.40	$19.90
PE Chassis Plug	PP1008	$17.90	$16.10	$14.30
PE Chassis Socket	PS1009	$17.90	$16.10	$14.30
Socket Dust Cap	PS1005	$12.90	$11.30	$10.30

LTW IP67 HARSH ENVIRONMENT CIRCULAR CONNECTORS

Perfect for harsh environments such as marine, industrial, outdoor, automotive, etc.

- IP67 rated
- Locking bayonet connection
- Gold plated
- UL rated
- Wide temperature: -40°C to 105°C
- Solder pins
- 2pin versions rated to 5A
- 4 & 6 pin versions rated to 2A

LTW 1 YEAR WARRANTY

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin Line Socket	PS0541	$18.90	$16.90	$14.90
2 Pin Panel Mount Plug	PP0542	$11.90	$10.90	$9.50
4 Pin Line Socket	PS0543	$24.90	$22.40	$19.90
6 Pin Line Socket	PS0545	$19.90	$17.90	$15.90
Dust Cap to suit PP0544	PS0547	$8.90	$7.70	$6.70

M8 Circular

Commonly used in process control instrumentation.
All connectors are field installable.

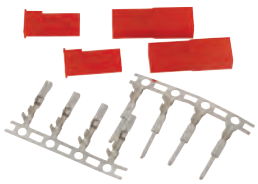
- 3A rated

Type	Cat.	Qty 1+
3 Way Plug	PP4300	$6.90
4 Way Plug	PP4302	$6.90
3 Way Socket	PS4301	$6.90
3 Way Socket	PS4303	$6.90

JST Crimp

JST CRIMP CONNECTORS 2 WAY

JST type crimp connectors for hobby use. Extensively used on batteries and other connectors in RC hobbies and models. Sold as a pair of 2 mating M/F connectors. Suitable for cable up to 1.3mm OD.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT4452	$5.90	$5.20	$4.70

Deans & Bullet Style

60A 2 POLE GOLD PLATED CONNECTOR SET

These are the industry standard in high performance connectors. Rated number one by RC Car Action, the world's leading RC car racing magazine. These connectors offer considerably less resistance than their competitors and are rated at 60 amps. Supplied as a pair.

Rating		Cat.	Qty 1+	Qty 10+	Qty 50+
60A	Pair	PT4450	$4.90	$4.10	$3.70

EC3 BULLET CONNECTORS

Polarity sensitive EC3 bullet style plug and socket. Commonly used to connect Li-Po batteries to RC motors.

- Solder type. 1 plug and socket per packet

Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
40A	PT4456	$6.90	$6.20	$5.50

EC5 BULLET CONNECTORS - PLUG & SOCKET

Essentially 5mm banana connectors in a case capable of up to 120 continuous amp with 10 awg wire. The popularity of this connector has grown as it is now widely used on RC & portable power products.

- Sold as a pair of plug & socket

Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
40A	PT4454	$6.90	$6.20	$5.50

XT60 2 WAY BULLET CONNECTORS

Made from high temperature nylon with gold plated terminals. Ensures a solid high current connection that will handle 65 amps constant.

- Solder type. One plug & socket per packet

Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
65A	PT4458	$6.90	$6.20	$5.50

NBN 8 PIN CONNECTOR WITH BARE LEADS

This NBN Replacement connector is a Molex 8 Pin plug pre-assembled with 2C 300mm cable with bare ends. Simply clip the connector of any standard 12V 2.5A plug pack and solder/ heathshrink this connector on. This power supply can now be used to bypass your NBN battery back-up.

	Cat.	Qty 1+	Qty 10+	Qty 50+
Molex for NBN Battery	PP2028	$5.60	$5.00	$4.40

For next day delivery, or Click and Collect, see page 5

Heatshrink

HEATSHRINK TUBING - 5M ROLL - 2:1

Purchase as a 5m box that can be neatly stacked and organised in the workshop or tradesman's van. Shrink with a heat gun, hairdryer or gas burner.

SPECIFICATIONS	ALL MODELS
Material	Polyethylene
Shrink Ratio	2:1
Operating Temperature	-55 to 125˚C
Shrink Temperature	Start at 70˚C and full recovery at 110˚C
Flammability	VW-1
Approvals	RoHS and UL224
Colour	Black & Red
Roll Length	5m
Box Dimensions	49(W) x 177(H) x 165(D)mm

Dia	Shrinks to	Black	Red	1+ Rolls	4+ Rolls	10+ Rolls
1.5mm	0.75mm	WH5680	WH5690	$7.50	$6.90	$5.95
2.5mm	1.25mm	WH5681	WH5691	$8.90	$7.90	$6.90
3.0mm	1.5mm	WH5682	WH5692	$9.50	$8.50	$7.50
5.0mm	2.5mm	WH5683	WH5693	$11.90	$10.90	$9.50
10.0mm	5mm	WH5684	WH5694	$13.90	$12.50	$11.10
16.0mm	8mm	WH5685	WH5695	$19.90	$17.90	$15.90
20.0mm	10mm	WH5686	WH5696	$29.90	$27.00	$23.70

HEATSHRINK TUBING WITH GLUE LINING 4:1

The heat sensitive glue on the internal wall of the tube melts when heat is applied, allowing for a professional water and dust resistant seal.

- Black in colour and sold in 1.2m lengths

Size(mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
4	1	WH5640	$5.90	$5.20	$4.70
6	1.5	WH5641	$6.90	$5.90	$5.20
8	2	WH5642	$7.90	$6.70	$5.90
12	3	WH5643	$8.90	$7.90	$6.90
16	4	WH5644	$9.90	$8.50	$7.50
19	4.75	WH5645	$15.90	$14.30	$12.70
24	6	WH5646	$15.90	$13.70	$12.30

HEATSHRINK TUBING

Our heatshrink is flexible and made from flame-resistant polyolefin.

- Made to UL224 E180908 125°C
- Shrinks to 50% of its size
- Shrink with a heatgun, hairdryer or a gas burner, match etc
- 1.2m Lengths

** Clear heatshrink not halogen free.*

2:1 SHRINK RATIO
HALOGEN FREE

Dia (mm)	Shrinks to (mm)	Green	Black	Red	Clear*	Blue	White	Yellow	Qty 1+	Qty 4+	Qty 10+
1.5	0.75	WH5510	WH5530	WH5540	WH5550*	WH5560	WH5570	WH5590	$1.90	$1.50	$1.30
2.5	1.25	WH5511	WH5531	WH5541	WH5551*	WH5561	WH5571	WH5591	$1.90	$1.70	$1.50
3.0	1.5	WH5512	WH5532	WH5542	WH5552*	WH5562	WH5572	WH5592	$2.50	$1.90	$1.70
5.0	2.5	WH5513	WH5533	WH5543	WH5553*	WH5563	WH5573	WH5593	$2.50	$2.00	$1.80
6.0	3	WH5514	WH5534	WH5544	WH5554*	WH5564	WH5574	WH5594	$2.90	$2.30	$2.10
10	5	WH5515	WH5535	WH5545	WH5555*	WH5565	WH5575	WH5595	$3.90	$3.10	$2.70
16	8	WH5516	WH5536	WH5546	WH5556*	WH5566	WH5576	WH5596	$4.90	$4.10	$3.70
20	10	WH5517	WH5537	WH5547	WH5557*	WH5567	WH5577	WH5597	$6.90	$5.90	$5.50

161 PIECE HEATSHRINK PACK WITH GAS POWERED HEAT BLOWER

A great addition to your workshop or toolbox. The handy box includes an assortment of 160 heatshrink tubes in 7 different colours and diameters, plus 1 gas powered heat gun with Piezo ignition and flame or flame-less output. All supplied in a transparent lightweight box that measures.

- Dimensions: 242(L) x 175(W) x 30(H)mm
- Use NA1020 Butane Gas

SIZE	COLOUR
15mm x 500mm	Black
1.5mm x 100mm	10 x green, red, yellow, blue, white & transparent
2.5mm x 100mm	6 x green, red, yellow, blue & transparent, 5 x white
3.5mm x 100mm	4 x green, red, yellow, blue & white, 4 x transparent
5.0mm x 100mm	3 x green, yellow, blue & white, 4 x red & transparent
6.0mm x 100mm	2 x red, yellow, blue & transparent, 1 x green & white
10mm x 100mm	2 x red, yellow, blue & transparent, 1 x green & white

Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
161 Pieces	TH1620	$54.90	$49.40	$43.90

HEAT SHRINKABLE BRAIDED SLEEVING

Provides added protection to cables against flames and abrasion. Consists of polyester multi-filament and special modified polyolefin filament, which will shrink when exposed to a heat source (Heat gun recommended). The unique woven construction makes it extremely flexible and easy to install on the hoses with irregular shapes.

SPECIFICATIONS	ALL MODELS
Operating Range	-40°C to 125°C
Minimum Shrink Temperature	80°C
Minimum Fully Recovery Temperature	120°C
Flammability	Self-extinguishing
Shrinking Ratio	2:1
Approved	RoHS, Halogen Free
Shrink Ratio	2:1
Length	1.2mm

Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
10	5	WH5620	$4.90	$4.30	$3.90
20	10	WH5622	$6.90	$6.20	$5.50
25	12.5	WH5624	$8.50	$7.60	$6.80
30	15	WH5626	$11.90	$10.90	$9.50

YELLOW & GREEN HEATSHRINK TUBING

- 1.2m lengths
- Ideal for indicating earth connections
- Abrasion Resistant & Flame Retardant

2:1 SHRINK RATIO

Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
3	1.5	WH5610	$3.90	$3.10	$2.70
10	5	WH5612	$4.90	$4.10	$3.70

HEATSHRINK TUBE - 50MM BLACK

Ideal for bundling battery packs, but also used for grips on kayak paddles etc. Supplied in 300mm lengths.

2:1 SHRINK RATIO
HALOGEN FREE

Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
50	25	WH5582	$4.90	$4.10	$3.70

Heatshrink Packs

COMPREHENSIVE HEATSHRINK PACK

- 1 length each of 7 different colours in 7 different sizes ranging from 1.5mm diameter to 20mm.
- Sizes: 1.5, 3, 5, 6, 10, 16 & 20mm

Note: Clear is NOT Halogen Free.

2:1 SHRINK RATIO HALOGEN FREE

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
7 Pieces	WH5520	$17.50	$15.30	$13.70

GLUE LINED PRE-CUT HEATSHRINK TUBING - TRADE PACK

A box of six common sizes of 95mm long glue lined heatshrink. Includes 20 pcs 4.0mm, 15pcs. 6.0mm, 10pcs 8.0mm, 5pcs 12mm, 5pcs 16mm & 5pcs 19mm - 60pcs total. This is an economical way to get this product.

- Supplied in a see-through nylon snap shut case
- Box dimensions: 205(W) x 108(D) x 35(H)mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
60 Pieces	WH5521	$39.90	$35.90	$31.90

HANDY HEATSHRINK PACK

Handy Heatshrink Pack Handy assortment of our high quality heatshrink tubing. Sizes from 1.5mm to 10mm.

- 10 pieces in all of 300 & 150mm length
- Colour Red & Black

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10 Pieces	WH5525	$9.90	$8.50	$7.50

HEATSHRINK ASSORTMENT TRADE PACK

All the heatshrink the technician, tradesman or serious hobby user will ever need. The pack contains 160 lengths of different sizes in a handy storage case.

- 1.5mm: 40 x black, 10 x red, 10 x clear
- 2.5mm: 25 x black, 5 x red, 5 x clear
- 3mm: 17 x black, 4 x red, 4 x clear
- 5mm: 14 x black, 3 x red, 3 x clear
- 6mm: 6 x black, 2 x red, 2 x clear
- 10mm: 6 x black, 2 x red, 2 x clear
- Case size: 205(L) x 110(W) x 35(H)mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
160 Pieces	WH5524	$24.90	$22.40	$19.90

High Temperature Sleeving

HIGH TEMPERATURE BASALT FIBRE SLEEVING

This protective sleeve has been woven from extruded volcanic rock and is the ultimate in cable protection! It will handle temperatures up to 650°C (Our previous fibreglass based product only went up to 450°C). It is also quite strong and abrasion resistant.

Sold in a 1 metre pack and available in two diameters.

Size(mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3	1m	WS5510	$6.90	$6.20	$5.50
6	1m	WS5511	$8.90	$8.00	$7.10

Cable Sleeving & Wrap

PVC SPAGHETTI TUBING PACK - 12 PIECE

This sleeving is made from soft PVC. It does not shrink with heat. It is ideal for high-voltage protection of smaller wires, has abrasion resistance or you can bundle several smaller wires inside a length.

- 4 sizes - 1.5, 3.0, 5.0 & 10mm
- Colours - black, red, yellow, white, clear & blue
- All 300mm long
- 85°C rated

Note: colour quantities vary from pack to pack.

MADE IN

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
12 Pieces	WS5502	$11.90	$10.70	$9.50

EXPANDABLE PPS SLEEVING

This PPS (Polyphenylene Sulphide) monofilament sleeving is ideal in high temperature environments and offers a lightweight mechanical protection to your cabling. The construction expands up to 3 times to allow easy insertions of cables and reverts back to original diameter for a snug fitment. The open weave design also dissipates heat and doesn't trap moisture.

SPECIFICATIONS	ALL MODELS
Material	Polyphenylene Sulphide (PPS) monofilament UL94 V-0
Operating Temperature	-70 to 200°C
Colour	Black
Length	2m

Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3	2m	WH5584	$3.50	$2.70	$2.40
6	2m	WH5585	$3.90	$3.50	$3.10
10	2m	WH5587	$7.30	$6.50	$5.80
15	2m	WH5588	$12.90	$11.30	$8.90

BRAIDED HOOK & LOOP LOOM WRAP - 1.5M

A fantastic solution for keeping cables wrapped up and neatly arranged. Wraps around your cables and secures them with hook and loop. When you need to add or remove cables, just undo the hook and loop. Couldn't be easier!

- Hook and loop width: 20mm
- Material : Polyester
- Working temperature: -50° to 150°C
- Melting point: 230°C +/- 5°C

Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
32	1.5m	WH5654	$19.90	$17.70	$15.70
51	1.5m	WH5656	$24.90	$22.30	$19.70

SELF-CLOSING BRAIDED WRAP

Protect cabling neat and tidy, and protected from abrasion, wear and tear using this flame resistant self closing wrap. Each 2m length is flexible and lightweight, and the open structure allows it to be easily installed without having to remove connectors or terminals.

SPECIFICATIONS	ALL MODELS
Material	PET Polyethylene Terephthalate
Operating Range	-50°C to +150°C
Melt Point	250°C @ 5°C
Flammability	VW-1
Certificate	RoHS, Halogen Free
Cutting Tool	Hot knife
Colour	Black
Length	2m

Size (MM)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6	2m	WH5630	$8.90	$7.70	$6.70
9	2m	WH5632	$9.90	$8.70	$7.70
13	2m	WH5634	$13.90	$12.50	$11.10
19	2m	WH5636	$17.90	$16.10	$14.30

tell a friend

If you have a technical friend or someone who may be just interested in some of the products we stock, have them email their address details to:

CATALOGUE DEPARTMENT - JAYCAR ELECTRONICS:

catalogue@jaycar.com

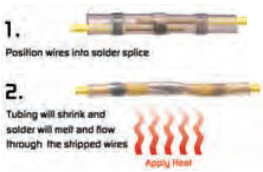
For next day delivery, or Click and Collect, see page 5

Heatshrink Accessories

SOLDER SPLICE HEAT SHRINK TUBE

Solder splice heat shrink tubes allow you to quickly join two cables thanks to the small section of solder in the middle of the tube. Simply slide a tube over the join in two cables and heat as you would any other shrink tube. As the tube shrinks the solder melts to electrically connect the wires resulting in a join which is reliable and well insulated. Available in four sizes approximately 26-40mm in length with 5 pieces per pack. Shrink ratio 2:1.

- Minimum shrink temperature: 85°C
- Starting temperature of solder melt: 140°C
- Operating temperature:- 55°C to 125°C
- Minimum full recovery temperature: 160°C



Dia. x Length (mm)	Pk	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
1.7 x 26	6	Clear	WH5669	$6.90	$6.20	$5.50
2.7 x 40	5	Red	WH5670	$6.90	$6.20	$5.50
4.5 x 40	5	Blue	WH5671	$6.90	$6.20	$5.50
6.0 x 40	5	Yellow	WH5672	$6.90	$6.20	$5.50

ASSORTED SOLDER SPLICE HEATSHRINK PACK - 42 PIECES

A handy assorted pack of solder splice heatshrink tubes to join electrical wires quickly and easily and make a good quality join. Each splice has just the right amount of solder to create a secure connection.

Kit includes:

- 12 x White 1.7 x 26mm
- 12 x Red 2.7 x 40mm
- 12 x Blue 4.5 x 40mm
- 6 x Yellow 6.0 x 40mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
42	WH5668	$46.90	$42.40	$37.40

Tape

HEATSHRINK TAPE - BLACK

Ideal for emergency repairs or when you aren't able to use a piece of tubing. It conforms to odd shapes that heatshrink tubing is unable to, and has a low melting point adhesive for easy installation. It also remains flexible at extremely low temperatures. Keep a roll in the toolbox.

- Operating temperature: -40 - 105°C
- Shrink temperature: 125°C

Width (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
25	5m Roll	WH5659	$15.90	$13.70	$12.30

Wire Glue

WIRE GLUE

A soldering iron in a jar. Wire Glue is a electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or aren't able to apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.

	Cat.	Qty 1+	Qty 4+	Qty 10+
9ml	NM2831	$11.90	$10.70	$9.50

Cable Management

RECTANGULAR CABLE DUCT - 1M

Keep your home theatre cables under control and neatly out of the way. Available in two sizes and in convenient 1m lengths, the leads to your wall-mounted plasma or LCDTV will be kept bundled up but easily accessible. The cover can be quickly removed and replaced for maintenance and can be painted to match the colour of your wall.

Size (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
25 x 16	1m	HP1330	$8.90	$7.90	$6.90
50 x 25	1m	HP1332	$11.90	$10.70	$9.50

FLOOR OR WALL CABLE DUCTING

This extruded ducting helps conceal messy cables across doorways, along skirting boards or walls. The ducting is 50.8mm wide and is sold in convenient 1.83m lengths.

Size	Cat.	Qty 1+	Qty 4+	Qty 10+
1.83m	HP1226	$19.90	$17.90	$15.90

CARPET CABLE COVER - SOLD BY THE ROLL OR METRE

Conceal unsightly cords and eliminate trip hazards with this low profile cord cover. Its 'cut to length' flexibility avoids the constraints of similiar cord covers. Just lay it over your cords, and let the "hook and loop" technology on the underside do its job on your nylon based carpet to secure your cables in place. The channel along the middle allows you to reconfigure your set up without the need to remove any cords. Re-usable over 1,000 times, machine washable and a fraction of the price of other carpet cord covers. The ideal solution for any office, boardroom, meeting room or public space. Choose from black to keep cable runs discreet, or yellow to prevent people tripping over it.

- 100mm wide
- Sold in handy 5m or 25m dispenser boxes or by the metre

Sold Per Metre		Cat.	Qty 1+	Qty 5+	Qty 25+
Black		HP2000	$10.90	$10.38	$8.76
Yellow		HP2002	$10.90	$10.38	$8.76
5 Metre Rolls		**Cat.**	**Qty 1+**	**Qty 4+**	**Qty 10+**
Black	5m Roll	HP2004	$51.90	$45.90	$40.90
Yellow	5m Roll	HP2006	$51.90	$45.90	$40.90

CARPET CABLE COVER 1.5M

Increase safety when cables need to be laid across floors. It's durable and will significantly reduce the trip-hazard of cables. Secures to carpet with plastic hook & loop.

- Weight: 135g
- Length: 1.5m
- Dimensions: 1500(L)m x 120(W)mm

Width (mm)	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
120	1.5m	HP1231	$18.90	$16.90	$14.90

CABLE TAGS

Clip them over your cable so you know what you're unplugging (before you disconnect the wrong thing!). Suits most power and A/V cables. Pack of 8 with writable surface.

- Universal
- Weight: 1.2g
- Dimensions: 34(L) x 16(W) x 3(H)mm
- Material: Thermoplastic Rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP1253	$5.90	$5.30	$4.70

CABLE CLIPS

Universal fit to keep your cables where you want them. Included genuine 3M adhesive tape. Simply stick down, and push your cable into place. Pack of 6.

- Universal (Cable dia. up to 8mm)
- Genuine 3m tape
- Weight: 5g
- Dimensions: 28(Dia.) x 15(H)mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6	HP1254	$5.90	$5.30	$4.70

DESK CABLE ORGANISER

Provides 5-slots for keeping cables from sliding off the table. Great for laptops, charging cables, or anywhere you temporarily connect devices.

- Rubber moulded design
- Weighted base
- Weight: 66g
- Dimensions: 70(W) x 30(D) x 40(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP1255	$5.90	$5.30	$4.70

Cable Management CONTINUED

DUNE TUBE WITH APPLICATOR

Keep your cables neat and tidy. They are easily bent for corners and are slit so cables can enter or leave at any point. Simply slip in the cable, insert the applicator and slide away. Easier to use than Spiral Binding; more secure than Loom Tube!

- Made from black flexible plastic INCLUDES SPECIAL WIRE SHUTTLE.

Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
15mm	2.5m	HP1235	$11.90	$10.70	$9.50
20mm	2.5m	HP1237	$15.90	$14.30	$12.70
20mm	10m	HP1239	$47.90	$42.90	$38.40

SPIRAL BINDING

Keep wiring tidy! Available in 2 sizes and colours and is easily wrapped around bunches of cables to keep them tidy.

Type	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm Clear	2.5m	HP1218	$7.50	$6.50	$5.70
12mm Clear	1.5m	HP1219	$7.50	$6.50	$5.70
6mm Black	2.5m	HP1220	$7.50	$6.50	$5.70
12mm Black	1.5m	HP1222	$7.50	$6.50	$5.70

ROUND DESK GROMMET

The perfect way to easily and neatly store your cables. It is ideal for installation in desks, workstation, telephones cabinets or entertainment unit. Simply drill or cut a 60mm hole through the surface & insert the grommet into the hole.

- Dimensions: 60mm (diameter) / Black in colour

Dia.	Cat.	Qty 1+	Qty 4+	Qty 10+
60mm (diameter)	HP1228	$11.90	$10.70	$9.50

LOOM TUBES

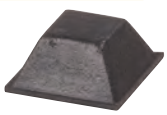
Tidy up the cables behind your PC or audio equipment, secure cabling in your car. The Loom Tube will keep wiring in place and suits many types of applications. The tube has a slit so that cables can enter/leave at any point along its length. Made from black flexible PVC.

- Three diameters available: 7, 10 or 19mm
- Available in either 2m or 10m lengths - just cut to suit
- Good abrasion resistance

Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
7mm	2m	HP1221	$3.90	$3.40	$2.90
10mm	2m	HP1224	$4.90	$3.90	$3.60
19mm	2m	HP1227	$5.90	$5.20	$4.70
7mm	10m	HP1223	$17.90	$15.90	$14.30
10mm	10m	HP1225	$19.90	$17.90	$15.90
19mm	10m	HP1229	$22.90	$20.90	$17.90
25mm	2.0m	HP1801	$6.90	$6.20	$5.50
25mm	10m	HP1804	$22.90	$20.90	$17.90
40mm	2.0m	HP1807	$8.90	$8.00	$7.10
48mm	2.0m	HP1810	$9.90	$8.90	$7.90

Rubber Feet

SMALL STICK ON

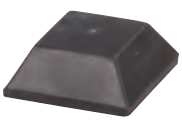


Dimensions: 12 x 12mm

- Height 6mm
- Moulded in oil resistant synthetic rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP0815	$3.10	$2.80	$2.50
20	HP0816	$9.90	$8.50	$7.50

LARGE STICK ON



- Dimensions: 20 x 20mm
- Height 8mm
- Moulded in oil resistant synthetic rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP0825	$4.90	$4.10	$3.70
20	HP0822	$11.90	$10.70	$9.50

SCREW ON EQUIPMENT FEET

- Silver in colour
- Screw on
- Pack of 4

Dia.	Cat.	Qty 1+	Qty 4+	Qty 10+
30	HP0830	$8.90	$7.90	$6.90
50	HP0832	$10.90	$9.50	$8.50

SCREW FIXING RUBBER FEET

Requires 3mm screw and nut.

- 11mm dia. x 7.5mm high
- Moulded in oil resistant synthetic rubber

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP0800	$5.90	$5.30	$4.80

Rubber Grommets

RUBBER GROMMETS

Suitable for use with chassis up to 16 gauge/1.5mm.

- Moulded in oil resistant synthetic rubber - black colour

Pack	Cable Dia.	Chassis Hole	Cat.	Qty 1+	Qty 4+	Qty 10+
8	6mm	9.5mm	HP0702	$4.90	$4.10	$3.70
8	9.5mm	12.7mm	HP0704	$5.90	$4.90	$4.40

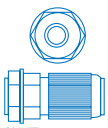
Cable Glands

IP68 NICKEL PLATED BRASS CABLE GLANDS

These nickel-plated brass cable glands are certified to IP68 and provide superior grip and sealing. They are totally protected and O-ring sealed against the ingress of dust, moisture and water to a depth of one metre. The unique design speeds installation and eliminates the need to disassemble the gland before fitting. A self-adjusting cable seal allows the glands to be used on a wide range of cable sizes and minimises inventory holdings. These glands are supplied complete with seals and locknuts. 5 sizes are available.

Pack	Cable Size	Cat.	Qty 1+	Qty 4+	Qty 10+
2	3 to 6.5mm	HP0744	$8.90	$7.90	$6.90
2	4 to 8mm	HP0745	$9.90	$8.50	$7.50
2	5 to 10mm	HP0746	$10.90	$9.50	$8.50
2	6 to 12mm	HP0747	$11.90	$10.70	$9.50
2	10 to 14mm	HP0748	$11.90	$10.70	$9.50

IP68 WATERPROOF CABLE GLANDS



These unique cable clamps incorporate a unique sealing mechanism which works on the camera shutter principle. Simply mount the clamp, insert the cable through and tighten up. There is no need to disassemble the clamp prior to installation. These clamps are rated to IP68. This is the highest rating possible. They are totally dust tight and protected against submersion in water.

- Trapezoidal thread for quick high torque tightening
- No throwaway "O" rings
- Long metric thread
- Superior strain relief
- UL Approved NYLON 94V-2

Pack	Cable Dia.	Thread	Cat.	Qty 1+	Qty 4+	Qty 10+
2	3-6.5mm	EP-7	HP0720	$5.90	$5.20	$4.70
2	4-8mm	EP-9	HP0724	$6.90	$5.70	$5.10
2	5-10mm	EP-11	HP0727	$7.90	$7.20	$6.50
2	6-12mm	EP-13.5	HP0732	$7.90	$6.70	$5.90
2	10-14mm	EP-16	HP0736	$8.90	$7.90	$6.90
2	13-18mm	EP-21	HP0740	$9.90	$8.50	$7.50

CORDGRIP CLAMPS

HP0716 7.4mm - 8.2mm diameter (3 wire mains).

- Panel cutout 14mm
- Black nylon

HP0718 6.2mm - 7.4mm diameter

- Panel cutout 11.5mm

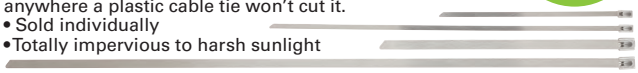
Pack	Dia	Cat.	Qty 1+	Qty 4+	Qty 10+
4	7.4mm - 8.2mm	HP0716	$2.50	$2.00	$1.80
4	6.2mm - 7.4mm	HP0718	$2.50	$2.00	$1.80

For next day delivery, or Click and Collect, see page 5

Cable Ties

METAL CABLE TIES

Made from 316 marine grade stainless steel for the ultimate in durability. Self-locking head design, suitable for virtually any use, boating, outdoors,underground, anywhere a plastic cable tie won't cut it.
- Sold individually
- Totally impervious to harsh sunlight



Length	Width	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	4.6mm	HP1182	$4.50	$4.05	$3.60
290mm	4.6mm	HP1184	$5.60	$5.00	$4.45
200mm	7.9mm	HP1186	$6.90	$6.20	$5.50
520mm	7.9mm	HP1188	$10.90	$9.90	$8.90

PLASTIC CABLE TIES

- UV resistant black nylon
- Safe edges

Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
100mm	20	HP1200	$2.50	$1.90	$1.70
150mm	15	HP1201	$2.90	$2.30	$2.10
200mm	15	HP1202	$3.10	$2.80	$2.50
300mm	15	HP1245	$3.90	$3.10	$2.70
500mm	15	HP1248	$7.90	$7.20	$6.50
605mm	15	HP1249	$8.90	$7.90	$6.90
100mm	100	HP1203	$5.90	$5.20	$4.70
150mm	100	HP1204	$9.90	$8.50	$7.50
200mm	100	HP1205	$13.90	$12.30	$10.90
300mm	100	HP1246	$15.90	$13.70	$12.30
100mm	500	HP1211	$21.90	$19.30	$16.90
150mm	500	HP1212	$36.90	$33.20	$29.50
200mm	500	HP1213	$47.90	$42.90	$38.40
300mm	500	HP1247	$54.00	$48.40	$42.90

EXTRA LONG MIXED CABLE TIE SET

This handy cable tie set contains 70 black cable ties of various lengths up to 500mm.
- 10 pcs 500(L) x 10(W)mm
- 10 pcs 510(L) x 8(W)mm
- 20 pcs 400(L) x 5(W)mm
- 30 pcs 300(L) x 4(W)mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
70	HP1209	$22.90	$20.30	$17.90

COLOURED CABLE TIES

Identify wiring looms with different coloured cable ties. Pack includes 25pcs each of red, yellow, green, blue and black.
- Total 125 cable ties
- Length 100mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
125	HP1196	$11.90	$10.70	$9.50

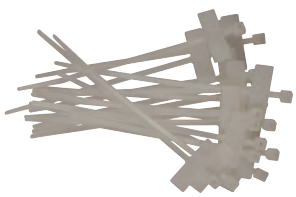
MIXED HOOK & LOOP CABLE TIES

Keep your cables neat and tidy. Packet of 16 hook & loop cable ties in assorted sizes from 125 to 180mm.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
16	HP1232	$11.90	$10.70	$9.50

100MM LABEL CABLE TIES

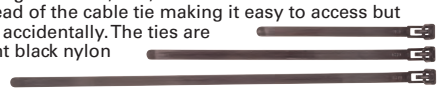
Ideal for large or complex wiring looms, these allow you to label cable bundles for identification later to make tracing or fault finding easy. Easily marked with permanent marker or self-adhesive labels.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP1244	$4.50	$3.70	$3.30

RELEASABLE CABLE TIE PACK

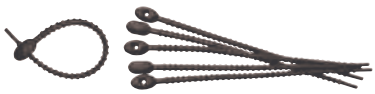
Releasable cable ties are perfect for temporarily securing cables or for jobs where you need to periodically change cables. This handy pack contains 10 pieces at lengths of 125, 200, and 300mm. The release lever is located below the head of the cable tie making it easy to access but unlikely to be released accidentally. The ties are made from UV resistant black nylon and have safe edges to prevent cuts.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10 Pieces	HP1217	$8.90	$7.70	$6.70

REUSABLE FLEXIBLE BLACK CABLE TIES 8 PACK

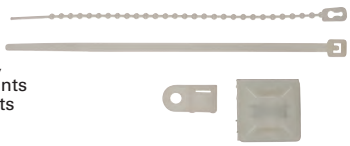
Reusable cable ties used to temporarily mount LED strip lights in place on poles, tree branches, etc.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
Reusable 8	HP1234	$7.90	$7.10	$6.30

CABLE TIE TIDY KIT

Consists of:
- 30 x 120mm cable ties,
- 20 x 120mm reusable cable ties,
- 10 x self adhesive cable tie mounts
- 20 x saddle type cable tie mounts



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
80 Pieces	HP1198	$11.90	$10.70	$9.50

CABLE TIE BOX - 400 PIECES

Let's face it, the mixed box of cable ties in all the colours of the rainbow is fine, however most of the time you only use about 2-3 different sizes and the black colour because of its UV stability. This is your box. This kit consists of: 100 pcs x 200mm, 100 pcs x 150mm, 200 pcs x 100mm. All in a see through flat storage case that makes access to the ties easy. The box even has some compartment dividers included so that it becomes a parts storage box when all of the ties have been used up.
- Box dimensions: 250(W) x 180(D) x 40(H)mm

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
400 Pieces	HP1216	$24.90	$22.30	$19.70

CABLE TIE GUN

Once you have wrapped the tie around the cable you simply slide the tail into the gun and pull the trigger. This will tighten the tie and cut off the excess to produce a neat and professional finish.
- Tension adjustment for different ties

	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH2600	$28.90	$25.90	$22.70

HOOK & LOOP CABLE TIES

Tidy up behind the TV or audio equipment with these re-usable hook & loop cable ties. Each tie is 140mm in length.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
5	HP1210	$5.90	$5.20	$4.70

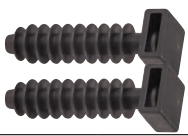
Cable Tie Mounts

ADHESIVE CABLE TIE MOUNTS

These are used in conjunction with our cable ties. They simply stick to the surface, then the cable tie is looped through and around the cables.
- 21mm square

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP1195	$5.50	$4.70	$4.30

CONCRETE CABLE TIE MOUNTS



Use these cable tie mounts in runs along walls and ceilings made of brick or concrete.
- UL 94V-2 approved Nylon
- Hole required: Approx. 7mm dia x 37mm deep

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP0795	$6.90	$5.70	$5.20
100	HP0796	$28.90	$25.90	$22.90

Fasteners & Screws

METRIC NYLON FASTENERS

- Precision moulded from white nylon
- Fully insulated
- Suitable for high temperature work
- Corrosion free and won't shake loose
- Ideal for transistor and heatsink use
- Supplied in polybag

M3 NYLON SCREWS, NUTS & WASHERS

Size	Type	PK	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 12mm	Screws, Phillips Drive	10	HP0140	$3.90	$3.10	$2.70
M3 x 25mm	Screws, Phillips Drive	10	HP0142	$4.50	$3.70	$3.30
M3 Nuts	Hex	10	HP0146	$3.90	$3.10	$2.70
M3 Nuts	Hex with Washer	25	HP0150	$7.90	$6.90	$5.90
M3 Washer	Flat	10	HP0148	$3.10	$2.80	$2.50

M4 NYLON SCREWS, NUTS & WASHERS

Size	Type	PK	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screws, Phillips Drive	25	HP0160	$9.00	$7.90	$6.90
M4 x 16mm	Screws, Phillips Drive	25	HP0162	$10.50	$8.90	$7.90
M4 Nuts	Hex	25	HP0168	$8.90	$7.90	$6.90
M4 Washers	Flat 10mmOD, 4.2mm ID	25	HP0166	$6.00	$5.20	$4.70

WOODSCREWS - PHILLIPS HEAD

- Ideal for mounting speakers
- Black finish
- No.6 size suitable for tweeters, midrange and crossovers
- No.10 size suitable for Woofers

Size	Type	PK	Cat.	Qty 1+	Qty 4+	Qty 10+
No.6 x 15mm	Round Head (Tweeters)	20	HP0620	$5.90	$5.20	$4.70
No.6 x 15mm	Countersunk	20	HP0626	$5.90	$5.20	$4.70
No.8 x 25mm	Countersunk	20	HP0625	$7.90	$7.20	$6.50
No.10 x 30mm	Round Head (Woofers)	20	HP0624	$7.90	$7.20	$6.50
No.10 x 30mm	Countersunk	20	HP0628	$7.90	$7.20	$6.50

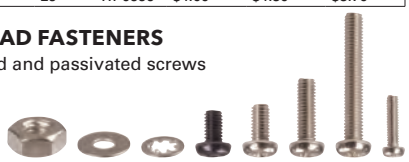
SELF-TAPPING SCREWS

- Nickel plated Steel

Size	Type	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
No.4 x 6mm	Phillips Head	25	HP0550	$3.90	$3.10	$2.70
No.4 x 9mm	Phillips Head	25	HP0565	$3.90	$3.10	$2.70
No.4 x 12mm	Phillips Head	25	HP0554	$4.50	$3.70	$3.30
No.8 x 12mm	Phillips Head	25	HP0558	$4.90	$4.30	$3.70

METRIC METAL THREAD FASTENERS

- Nickel or Cadmium Plated and passivated screws
- Supplied in polybag



M2 SCREWS

Size	Type	PK	Cat.	Qty 1+	Qty 4+	Qty 10+
M2 x 8mm	Screw, Pozi Drive	4	HP0390	$1.90	$1.60	$1.40

M3 EQUIPMENT SCREWS

*Black japanned screws used holding top/side panels on VCR, DVD, Amplifiers, etc.

Size	Type	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 5mm	Screw, Phillips, Black	25	HP0440	$2.90	$2.40	$2.10
M3 x 5mm	Screw, Phillips, Black	200	HP0441	$7.50	$6.20	$5.70

M3 SCREWS, NUTS & WASHERS

Size	Type	PACK	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 6mm	Screw, Phillips	25	HP0400	$3.10	$2.80	$2.50
M3 x 6mm	Screw, Phillips	200	HP0401	$7.90	$6.90	$5.90
M3 x 10mm	Screw, Phillips	25	HP0403	$3.90	$3.10	$2.70
M3 x 10mm	Screw, Phillips	200	HP0404	$9.00	$7.90	$6.90
M3 x 15mm	Screw, Phillips	25	HP0406	$4.50	$3.70	$3.30
M3 x 15mm	Screw, Phillips	200	HP0407	$10.50	$8.90	$7.90
M3 x 20mm	Screw, Phillips	25	HP0410	$4.50	$3.70	$3.30
M3 x 25mm	Screw, Phillips	25	HP0414	$4.50	$3.70	$3.30
M3 x 32mm	Screw, Phillips	25	HP0418	$4.90	$4.30	$3.70
M3 Nuts	Hex	25	HP0425	$3.90	$3.10	$2.70
M3 Nuts	Hex	200	HP0426	$11.90	$10.70	$9.50
M3 Washers	Flat	25	HP0430	$3.90	$3.10	$2.70
M3 Washers	Flat	200	HP0431	$9.90	$8.50	$7.50
M3 Washers	Shakeproof	25	HP0433	$4.50	$3.70	$3.30
M3 Washers	Spring	25	HP0436	$3.90	$3.10	$2.70

M4 SCREWS, NUTS & WASHERS

SIZE	TYPE	PACK	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screw, Phillips	25	HP0450	$4.50	$3.70	$3.30
M4 x 10mm	Screw, Phillips	200	HP0451	$11.90	$10.70	$9.50
M4 x 15mm	Screw, Phillips	25	HP0453	$5.90	$5.30	$4.80
M4 Nuts	Hex	25	HP0462	$4.50	$3.70	$3.30
M4 Washers	Flat	25	HP0465	$4.50	$3.70	$3.30
M4 Washers	Shakeproof	25	HP0468	$4.90	$4.30	$3.70

M6 RACK SCREWS, NUTS & WASHERS

Suitable for mounting rack style enclosures into rack units.

Size	Type	PACK	Cat.	Qty 1+	Qty 4+	Qty 10+
M6 x 16mm	Screw, Pozi Drive, Black	12	HP0300	$5.90	$5.20	$4.70
M6 Nuts	Captive Nuts	12	HP0310	$9.90	$8.50	$7.50
M6 Washer	Flat Washer	12	HP0322	$4.50	$3.70	$3.30

Nuts & Springs

POTENTIOMETER NUTS

Packet of 12 potentiometer nuts and washers.

Size	Thread	PACK	Cat.	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THD	12	RP3500	$4.30	$3.45	$3.00
16mm	Metric	12	RP7500	$4.30	$3.45	$3.00

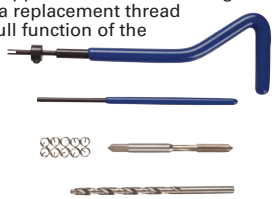
200 PIECE SPRING ASSORTMENT

This set contains approximately 200 springs, with 20 different types, compression and tension. They range from 10mm long to 70mm long.

- Sizes for all are given on the lid
- Supplied in a plastic storage case

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
200 Pieces	HP0638	$24.90	$22.40	$19.90

THREAD REPAIR KITS (SMALL METRIC) M4 - M6



These products enable you to drill out a stripped or otherwise damaged thread in a blind hole. You can then insert a replacement thread with the coiled thread inserts and regain full function of the threaded hole, often giving a much stronger thread than the original one. This also works when a damaged stud or screw shaft has been removed. The basic thread repair kit includes: Drill bit, thread tap, insertion tool, tag punch and 10 inserts of the nominated thread size. Three versions available.

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
For M4	HP1602	$36.90	$33.20	$29.50
For M5	HP1604	$36.90	$33.20	$29.50
For M6	HP1606	$36.90	$33.20	$29.50

Spacers

UNTAPPED NYLON PCB SPACERS

Superb range of spacers. Fixing is by size 6 or 8 self tapping screws. The hex centre section can be gripped to prevent rotation while fixing.

- OD 8.2mm

Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	5	HP0980	$3.50	$2.90	$2.60
12mm	5	HP0982	$3.50	$2.90	$2.60
19mm	4	HP0984	$3.50	$2.90	$2.60
25mm	4	HP0986	$3.90	$3.10	$2.70
32mm	4	HP0988	$4.50	$3.70	$3.30
38mm	4	HP0990	$4.90	$4.10	$3.70

UNTAPPED NYLON SPACERS

- Untapped
- ID 4.1mm. OD 6.4mm

Length	Diameter	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	6mm	25	HP0930	$8.90	$7.90	$6.90
10mm	6mm	25	HP0934	$9.90	$8.50	$7.50

For next day delivery, or Click and Collect, see page 5

Spacers CONTINUED

3MM TAPPED NYLON SPACERS

These spacers are tapped all the way through for a 3mm screw.
- OD 6mm

Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.3mm	25	HP0920	$10.90	$9.50	$8.50
9mm	25	HP0922	$11.90	$10.70	$9.50
12mm	25	HP0924	$11.90	$10.70	$9.50
15mm	25	HP0926	$15.90	$14.30	$12.70

UNTAPPED METAL SPACERS

- Nickel plated steel
- Untapped
- ID: 3.4mm OD 4.7mm

Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	8	HP0860	$4.90	$4.50	$3.90
9mm	8	HP0862	$4.90	$4.10	$3.70
12mm	6	HP0864	$5.90	$4.90	$4.40
25mm	4	HP0866	$5.90	$5.20	$4.70

3MM TAPPED METAL SPACERS

- Nickel plated brass
- 3mm standard metric thread

Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	8	HP0900	$4.90	$4.10	$3.70
10mm	100	HP0901	$35.90	$32.30	$28.70
15mm	8	HP0904	$5.90	$5.20	$4.70
25mm	8	HP0907	$7.90	$7.20	$6.50

PCB Standoffs

ADHESIVE PCB STANDOFFS

The self adhesive base sticks directly to the chassis.
- Requires 4mm PCB hole
- Adhesive pads 18mm square
- Nylon

Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.35mm	25	HP0760	$15.90	$14.30	$12.70
12.7mm	25	HP0762	$16.90	$14.90	$13.30

SCREW MOUNT PCB SUPPORTS

These supports have a 2.5mm hole for securing to chassis with a screw, use 3 x 10mm or a self tapper.
- Requires 4mm PCB hole
- Nylon

Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	25	HP0764	$9.90	$8.50	$7.50
20mm	25	HP0766	$12.90	$11.30	$10.30

FLUSH MOUNT PCB SUPPORTS

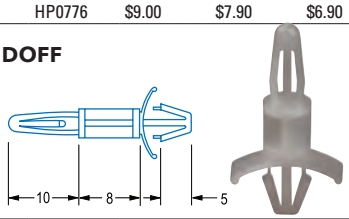
These are virtually flush mount on the underside of the chassis.
- PCB hole 4mm
- Chassis hole 5.5mm
- Chassis thickness 0.8-1.2mm
- Nylon

Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.35mm	25	HP0774	$8.90	$7.90	$6.90
10mm	25	HP0776	$9.00	$7.90	$6.90

SCREWLESS PCB STANDOFF

- Nylon

Saves using nuts, bolts and spacers.
Size 8mm. Requires 3mm hole each end.



Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP0770	$3.10	$2.80	$2.50

METAL RIGHT ANGLE STANDOFFS

Threaded M3.5 standoffs, right angle.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP0872	$5.90	$5.20	$4.70

Cable Clips / Clamps

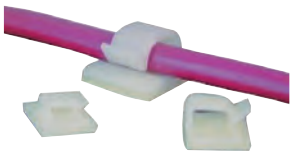
ADHESIVE CABLE / BUNDLE MOUNTS

These have an adhesive base 25 x 18mm and cable tie that clips into the base to retain individual cables, or bundles of wiring.The maximum cable bundle diameter accommodated is 17mm.
- The base also has a 3mm hole for a screw mount if required

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP1190	$8.90	$7.90	$6.90

ADHESIVE CABLE CLIPS

The easy way to secure cables to walls, cabinets etc. Simply peel off adhesive cover and slip cable in.
- Please note all sizes are in mm
- Nylon



Cat.	L	H
HP0782	11.7	5.9
HP0784	13.4	8.2
HP0786	19.0	11.9

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0782	$11.90	$10.70	$9.50
25	HP0784	$13.90	$12.30	$10.90
25	HP0786	$13.90	$12.30	$10.90

CABLE CLIPS

These clips are made using a high-density polyethylene plastic material and galvanised high carbon steel nails. Available in packets of 25 and are priced up to 50% less than others.
- 4 sizes available

3 X 5MM

Accepts cables up to 3mm high by 5mm wide. Suits the following:
WB1706/WB1708 speaker cable & 6 core flat telephone cable.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0680	$2.90	$2.60	$2.30

5 X 8MM EXPANDABLE

Suits round cables with 5 x 8mm diameter - including 4 core alarm cable, 75Ω thin coax and 50Ω thin coax.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0682	$3.50	$2.90	$2.60

5 X 7MM

Accepts cable up to 5mm high by 7mm wide. Suits the following:
WB1706/WB1708 speaker cable & 6 core flat telephone cable

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0692	$3.90	$3.10	$2.70

7 - 10MM EXPANDABLE

Suitable for round cable 7-10mm diameter - including 6 core alarm cable, air spaced coax and Belden coax.

Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP0694	$4.50	$3.60	$3.30

'P' TYPE CABLE CLAMPS

- Nylon

Size	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
For 5mm cable	6	HP0752	$2.50	$2.00	$1.80
For 7mm cable	6	HP0754	$2.90	$2.60	$2.30
For 10mm cable	6	HP0756	$3.90	$3.10	$2.70

workbench equipment

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soldering irons

Soldering is still the fundamental way of welding wiring together in electronics. We here at Jaycar have always recognised this, and as a result, have paid close attention to providing the best hand soldering (mains or gas) tools on the market today. Gas portable irons use a heating technique called "catalytic combustion", which is virtually flameless. It uses standard butane gas. Our Portasol range and house brand products proudly carry a one year warranty.

Gas Soldering Irons

LOW COST GAS SOLDERING IRON

1 YEAR WARRANTY

A low cost alternative, this butane gas soldering iron features adjustable tip temperature and a fold-out stand. Remove the soldering tip and you have a flame torch for heatshrink etc. Great for soldering, cutting plastic, or heat shrinking plastic.

- Dimensions: 210(L) x 20(Dia)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron - Gas	TS1111	$32.90	$29.40	$26.40
Spare Catalyst	TS1104	$17.90	$15.90	$14.30
1mm Conical Tip	TS1105	$5.90	$5.20	$4.70
Butane Gas - 150g	NA1020	$5.60	$5.00	$4.45

GAS SOLDERING IRON / TORCH KIT

1 YEAR WARRANTY

Everything you need to solder, silver solder, braze, heatshrink, strip paint etc. The iron is refillable with standard butane gas and has an on/off switch and a built-in stand for safety. Extra soldering, torch and cutting tips are included, all housed in a moulded storage case. Replacement gas: NA1020.

- 3 soldering tips,
  1 rope cutter,
  1 torch attachment
- 178mm long

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron/Torch Gas	TS1112	$47.90	$42.90	$38.40
Butane Gas - 150g	NA1020	$5.60	$5.00	$4.45

For next day delivery, or Click and Collect, see page 5

pick me — Gas Soldering Irons

p.206 butane gas

	TS1111	TS1305	TS1310	TS1320	TS1112	TS1113	TS1318	TS1328
Soldering Iron	•	•	•	•				
Soldering Iron Kit					•	•	•	•
Temp - Soldering Iron		450°C	580°C	580°C		500°C	580°C	580°C
Temp - Hot Blow						650°C		
Temp - Torch						1300°C		1300°C
Power (Watts)		10W/60W	15W/75W	25W/125W			15W/75W	25W/125W
Spare Catalyst	•							
Soldering Tips - Kit					•	•	•	•
Hot Air Blow Tip			•	•		•	•	•
Hot Air Deflector						•	•	•
Hot Knife Tip			•	•			•	•
Rope Cutter Tip			•		•			
Flame Tip			•		•		•	
1.0mm Chisel Tip			•	•				
1.0mm Conical Tip	•	•						
2.4mm Double Flat Tip							•	•
2.4mm Chisel Tip		•	•	•				
3.0mm Flat Tip						•		

PRO GAS SOLDERING TOOL KIT

A sturdy, portable, self-igniting butane powered gas soldering iron tool kit with 3 tips. Produces a 1300°C adjustable flame for low end brazing, tin/plastic melting, automotive repair work, welding and of course heat shrinking. Supplied with 3 interchangeable metal tips for PCB work. A handy retractable stand as well as being supplied in a plastic carry case that includes a cleaning sponge, extra tips, a deflector and a cap for the soldering iron.

SPECIFICATIONS	TS1113
Operating Time	80-100 min (on minimal flame)
Gas Capacity	20ml
Ignition	Internal Piezo Crystal igniter
Weight	115g without gas
Temperature Of Torch	Up to 1300°C
Temperature Of Hot Blow	Up to 650°C
Temperature Of Soldering	Up to 500°C
Case Dimensions	236(L) x 32(W) x 37(D)mm

1 YEAR WARRANTY

Note: All gas soldering products use the same butane gas, NA1020 on the right

Fantastic warranty on these quality products. 1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Gas Soldering Tool Kit	TS1113	$94.90	$85.50	$76.90
3mm Flat Tip	TS1116	$6.90	$6.20	$5.50
4mm Chisel	TS1117	$6.90	$6.20	$5.50
Blower Tip	TS1118	$17.90	$16.10	$14.30
Butane Gas - 150g	NA1020	$5.60	$5.00	$4.45

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Related Product:
SOLDERING GAS REFILLER

5 adaptors supplied.

Use it for filling up your gas soldering iron, flame torches, cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves. Includes filling instructions.

- Enough gas for many many refills
- Cannot be sent by post

MADE IN

Cat.	Qty 1+	Qty 4+	Qty 10+
NA1020	$5.60	$5.00	$4.45

Gas Soldering Irons - Portasol CONTINUED

PORTASOL® TECHNIC GAS SOLDERING IRON

The Portasol® Technic combines compact power, and convenient reliability, making it one of the most versatile gas soldering irons available. It offers a run time of around 60 minutes, and tip temperature is adjustable up to 450°C . With equivalent electrical power of between 10 and 60 Watts, it is ready to tackle just about anything. The protective end cap features a built in flint type igniter, and if the gas is left on, it will turn it off when replaced. If a compact, versatile and reliable gas iron is what you're after, then the Portasol® Technic is for you.

1 YEAR WARRANTY

Includes Tip Cover.

SPECIFICATIONS	TS1305
Operating Time	60 min (approx).
Refill Time	10 sec (approx).
Ignition	Flint ignitor in end cap.
Dimensions	170(L) x 19(Dia)mm.
Weight	60g without gas

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1305	$71.90	$64.50	$57.50

TIPS TO SUIT	Cat.	Qty 1+
1.0mm Conical	TS1306	$28.90
2.4mm Chisel	TS1307	$28.90
4.8mm Chisel	TS1308	$28.90

PORTASOL® PRO PIEZO GAS SOLDERING IRON

The Portasol® Pro Piezo is a powerful gas soldering iron featuring an adjustable temperature control allowing soldering tip temperatures up to 580°C . With equivalent electrical power of between 15 and 75 Watts, there is little that's not possible with this beauty. It incorporates a viewing window at the end of the gas tank, to keep an eye on the fuel level. The fuel tank fills in around 20 seconds, and will provide approximately 45 minutes of run time. Ignition is via the built in Piezo crystal mechanism, and the end cap provides safety gas shut off when replaced. The Portasol® Pro Piezo is a dream to use, and will not let you down.

- 2.4mm double flat tip supplied

1 YEAR WARRANTY

Includes Tip Cover.

SPECIFICATIONS	TS1310
Operating Time	45 min (approx).
Refill Time	20 sec (approx).
Ignition	Internal Piezo crystal ignitor
Dimensions	178(L) x 22(Dia)mm
Weight	75g without gas.

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1310	$119.00	$106.95	$94.95

TIPS TO SUIT	Cat.	Qty 1+
1.0mm Chisel	TS1311	$28.90
2.4mm Chisel	TS1312	$28.90
4.8mm Chisel	TS1313	$28.90
Hot Air Blow	TS1314	$28.90
Hot Knife	TS1315	$28.90

PORTASOL® SUPER PRO GAS SOLDERING IRON

The Portasol® Super Pro is the big brother of all irons in the range. It features adjustable tip temperature up to 580°C , with equivalent electrical power of between 25 and 125W! 125W may seem somewhat excessive to some. You don't need a V8 to drive around town, but it's nice to know that the power is there when it's needed isn't it? Ignition is achieved with the internal Piezo crystal mechanism, and run time is around 2 hours on a 30 second refill. The stainless steel finished gas tank features a viewing window to keep an eye on fuel level, & the protective end cap also acts as a safety cut off for the gas valve control when replaced. With the various tips available & huge power at hand, no job is a match for the Portasol® Super Pro.

- 2.4mm tip supplied

1 YEAR WARRANTY

Includes Tip Cover.

SPECIFICATIONS	TS1320
Operating Time	120 min (approx).
Refill Time	30 sec (approx).
Ignition	Internal Piezo crystal ignitor
Dimensions	234(L) x 25(Dia)mm.
Weight	135g without gas

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1320	$149.00	$133.90	$118.90

TIPS TO SUIT	Cat.	Qty 1+
1.0mm Chisel	TS1321	$29.90
2.4mm Chisel	TS1322	$29.90
4.8mm Chisel	TS1323	$29.90
Hot Air Blow	TS1324	$29.90
Hot Knife	TS1325	$29.90

portasol®

A leading brand recognized worldwide. Portasol® products are designed and manufactured in Ireland, to the highest quality standards. Since commencing operation in 1983, they have forged their way into the market with some of the most rugged & reliable gas powered soldering & heating tools in the world. They utilize catalytic combustion (flame tips excluded), which converts the gas flame into infrared radiation. It is a safe, flameless way of heating the tips evenly and continuously. They all use standard butane gas, and have a variety of tips available to support a wide range of applications.

PORTASOL® PRO PIEZO GAS SOLDERING TOOL KIT

1 YEAR WARRANTY

This kit contains a Portasol® Pro Piezo Gas Soldering Iron and the following.

- Quality storage case
- 2.4mm double flat tip (TS1312)
- Hot knife tip (TS1315)
- Flame tip (TS1316)
- Cleaning sponge and tray
- Hot air blow (TS1314)
- Hot air deflector

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1318	$159.00	$142.90	$126.90

PORTASOL® SUPER PRO GAS SOLDERING TOOL KIT

1 YEAR WARRANTY

Features 120 minute run time, 30 second fill, maximum 580°C temperature and 40 second heat up. This kit contains a Portasol® Super Pro Gas Soldering Iron and the following.

- Quality storage case
- Hot Air Blow
- Cleaning sponge and tray.
- Hot knife tip (TS1325)
- 2.4mm double flat tip (TS1322)
- Hot air deflector
- 4.8mm flat tip (TS1323)

Cat.	Qty 1+	Qty 3+	Qty 6+
TS1328	$189.00	$169.90	$150.90

For next day delivery, or Click and Collect, see page 5

Gas Torches & Combos

PENCIL BUTANE TORCH

Pocket sized gas torch for heatshrinking, soldering etc., and uses standard butane gas. Adjustable flame, all metal construction.

- Dimensions: 205(L) x 13(Dia)mm

1 YEAR WARRANTY

Note: Does not self ignite.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS1667	$15.90	$14.30	$12.70

COMPACT POCKET SIZE GAS BLOWTORCH

At only 95mm high, this product is amazing. It is a fully self-contained Butane 1300°C portable blow torch. It has simple press button Piezo ignition, flame control and safety lock. The unit can be recharged with a suitable Butane refill (such as the NA1020). It will take 7g of gas which will give 30 minutes of use at mid setting. Has protective burner cap.

Ideal for:

- Low temp silver soldering
- Heat Shrinking
- Soft soldering ("sweating")
- Hobby use
- Food preparation etc.

Dimensions:

- 95(H) x 55(L) x 26(W)mm
- Weight 45g (dry)

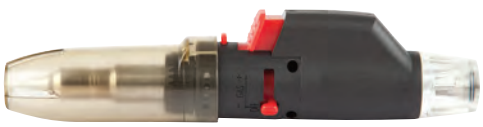
For suitable Butane Gas use NA1020.
For Silver Solder use NS3045.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1610	$29.90	$26.90	$23.90

3 IN 1 HEAT BLOWER & SOLDERING IRON

A handy 3-in-1 unit with flame or flameless heat blower and soldering iron function. Great for general heating, drying, melting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, child resistant latch and uses butane gas. The tip has a sturdy cap for when not in use. Ideal for hobbyists and professionals alike. Spare Tip available: TH1603 Butane gas required - use NA1020.



SPECIFICATIONS	TH1604
Burning Time	55-95min
Gas Capacity	10ml
Temperature Of Hot Blow	Up to 500˚C
Temperature Of Soldering	Up to 450˚C
Dimensions	144(L) x 35(W) x 23(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Gas Soldering Iron	TH1604	$39.90	$35.90	$31.90
1mm Conical Tip	TH1603	$4.90	$4.30	$3.90

GAS BLOW TORCH WITH BUTANE GAS

Useful for lighting a combustion fireplace, out camping, and a range of handyman and hobbyist functions. Lit with an integrated piezo igniter this unit attaches directly onto the gas canister, so you can just get the job done. You'll get more than 2hrs usage from a single can.

- One-touch automatic piezo ignition
- Ergonomic design
- Adjustable temperature

1 YEAR WARRANTY

SPECIFICATIONS	TH1632
Gas Consumption	100g/hr
Included Gas	Butane 277g
Weight	174g (torch unit)
Dimensions	180(L) x60(W) x 35(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
227g	TH1632	$33.90	$29.90	$26.90
4 x 220g Spare Gas	NA1021	$8.90	$8.00	

PIEZO IGNITION BUTANE GAS TORCH

Perfect for silver soldering, brazing, heat treating, heatshrinking, paint removal etc. It's able to produce a flame about 100mm long, so is capable of more than light-duty work. The 64ml tank gives a burn time of 60-70 minutes and uses any butane gas. It also has an adjustable flame, a child-proof piezo ignition button and a stand so you don't knock it over and burn the house down.

- Piezo ignition with safety lock
- 1300°C adjustable flame
- Butane gas refill: NA1020
- Dimensions: 150(H), base 69 x 69mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS1660	$47.90	$42.90	$38.40

3 IN 1 MINI GAS SOLDERING TOOL SET

A handy gas soldering iron with flame or flameless heat blower function. Great for general heating, drying, melting, cutting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, retractable stand, visible gas tank and child resistant latch. The tip has a sturdy cap for when not in use. Carry case includes 1mm tip, 3mm chisel tip, 5mm angle tip, hot knife tip, 1mm solder hobby pack, cleaning sponge and tray.
Spare 1mm Conical Tip available: TH1603
Butane gas required - use NA1020

SPECIFICATIONS	TH1606
Burning Time	55-95min
Gas Capacity	7ml
Power Range	25W to 70W
Flame Temp	Up to 1300°C
Iron Dimensions	148(L) x35(W) x23(D)mm
Case Dimensions	175(W) x 125(D) x33(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
3 In 1 Mini Gas Soldering Tool Kit	TH1606	$59.90	$54.00	$47.90
1mm Conical Spare Tip	TH1603	$4.90	$4.30	$3.90

GAS SOLDERING & HEATSHRINK KIT

Excellent value and a handy kit to have close at hand for those quick and urgent repairs. Includes many of the necessary accessories for your wiring and soldering needs, making it an ideal kit for the home handyman, enthusiast or electrician. Supplied in a hard plastic carry case.

This kit contains:

- Pro Gas Soldering Iron with built-in stand, and cap. Spare tips included: Chisel tip, anvil tip, flat tip, deflector, solder, cleaning sponge
- 3mm Desolder Braid (NS3020)
- 115mm Stainless Steel Side Cutters (TH1890)
- Heavy Duty Wire Stripper/Cutter/Crimper with Wire Guide (TH1827)
- 28 Piece Screwdriver set
- Heatshrink assortment:
  1.5mm - 20 x black, 5 x red, 5 x clear
  2.5mm - 10 x black, 3 x red, 3 x clear
  3.0mm - 8 x black, 2 x red, 2 x clear
  5.0mm - 7 x black, 2 x red, 2 x clear
  6.0mm - 3 x black, 1 x red, 1 x clear
- Straight Demagnetised 116mm Long Tweezers, Curved Demagnetised 121mm Long Tweezers
- Small 9 x LED Torch 26(Dia.) x 84mm (Requires 3 x AAA batteries)
- Case dimensions: 130(W) x 150(D) x 70(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering & Heatshrink Kit	TS1115	$159.00	$142.90	$126.90

Rechargeable Soldering Iron

RECHARGEABLE LITHIUM-ION SOLDERING IRON SET WITH CASE

Everything you need to solder without the need for mains power or butane gas. Power is provided by an internal Li-ion battery for up to 50 minutes of soldering from a full charge. A quick 5 minute charge can provide 90 seconds of use if the battery isn't charged when you go to use it. An integrated LED provides light to what you are soldering, and safety features include overcharge, over discharge, and short circuit protection. The kit comes complete in a handy carry case with one 12W soldering tip (500°C), one 30W soldering tip (600°C), hot knife, sponge, and solder. To charge, simply plug it into an available USB power source. ESD safe.

- 30W/12W Tips
- Hot Knife
- Rechargeable Li-ion Battery
- ESD Safe
- Up to 50 Minutes Continuous Use from a Full Charge
- Regain 90 Seconds Use from a 5 Minute Charge
- LED Light for Illumination

SPECIFICATIONS	TS1545
Battery	3.7V, 2500mAh Rechargeable Li-ion
Max. Temperature	600°C (12W Tip: 500°C, 30W Tip: 600°C)
Charging Time	3~4 Hours

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rechargeable	TS1545	$99.90	$89.90	$79.90
30W Tip	TS1546	$11.90	$10.90	$9.90
12W Tip	TS1547	$10.90	$9.90	$8.90
Hot Knife Tip	TS1548	$11.90	$10.90	$9.90

5V USB Soldering Iron

USB POWERED 8W SOLDERING IRON

This handy little soldering iron will work anywhere you have USB power, which let's face it, is basically everywhere these days. Even if it's from a laptop or power bank, USB power is almost easier to come by than mains power when away from the home or office, or in the workshop or shed. Unlike a conventional mains iron which heats up persistently, this one has a touch-switch to activate, and it rapidly heats to 380-400°C in just 15 seconds, and you're ready to solder. The heating element is rated at 8W, so it's useful for fine electronics and small jobs not sinking a lot of heat (such as thick cables, better left for appropriate soldering irons). The heating element is integrated into the soldering tip, so heating and cooling is very rapid. Includes a long life tip, protective cap, and USB power cable.

Note - at 8W, your USB port will need to be rated with at least 2A, which most newer charging ports are equipped to supply. Older USB ports may struggle to power this device.

- Heats up in under 15 seconds
- Cools down in under 30 seconds
- Long-life tip with protective cap
- 2 in 1 heating element and soldering tip
- Automatic shutoff

SPECIFICATIONS	TS1532
Input	5V USB
Power	8W
Tip Temperature	380°C - 400°C
Auto Shut Off	25 Seconds Idle
Weight	25g
Dimensions	170(H) x 20(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
USB Powered	TS1532	$16.90	$14.90	$13.90

Battery Powered Soldering Irons

30W 12VDC SOLDERING IRON - WITH CIGARETTE LIGHTER PLUG

This 12V 30W soldering iron features a fused cigarette lighter plug lead to allow you to power it from the car cigarette lighter socket. Ideal for automotive soldering. Metal sheet solder stand included.

- Dimensions: 205(L) x 35(Dia.)mm
- Lead length: 1.5 metre

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	TS1536	$24.90	$22.40	$19.90

6W SOLDERING IRON - BATTERY POWERED

We have been surprised by the popular acceptance of this product, considering its modest power rating. Don't expect too much, but it will re-solder a dry joint or fix a solder lug, etc. It is ideal in potentially explosive situations, such as a bilge, or where petrol fumes may be present. Reaches full temp in about 10 seconds.

- Uses 3 x AA batteries (not included)
- Safety cover that locks the switch to ,"Off" so it won't discharge inside your tool box
- Dimensions: 175(L) x 36(W) x 18(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Battery	TS1535	$24.90	$22.40	$19.90

Soldering Starting Kits

MY FIRST SOLDERING IRON

At last you can have your own soldering iron with minimal adult supervision (min 12 years+). It includes a full power iron with long-life tip, a spare tip, stand for the iron (when it's hot), metal solder removal sucker and a generous portion of 1mm solder wire in a handy dispenser tube. This set will become your best friend in the world of electronics!

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Starter Kit	TS1651	$29.90	$26.90	$23.70

25W SOLDERING IRON STARTER KIT WITH DMM

The ideal starter package for young electronics enthusiasts or the home handyman, this kit contains everything needed for basic electronics work, electronics projects or automotive circuits. The kit includes:

- Digital multimeter
- 25W soldering iron with spare tip
- De-soldering tool with spare tip
- Lead free solder
- Phillips head screwdriver
- Flat head screwdriver
- Side cutters
- Long nose pliers

	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Iron Kit	TS1652	$49.90	$44.90	$39.90
Spare Tip To Suit	TS1622	$11.90	$10.90	$9.50

For next day delivery, or Click and Collect, see page 5

pick me Electric Soldering Irons

	TS1465	TS1468	TS1554	TS1540	TS1470	TS1475	TS1430	TS1485	TS1536	TS1545 NEW	TS1535	TS1532
Voltage	240V	240V	240V	240V	240V	240V	240V	240V	12VDC	5V USB	3VDC	5V USB
Power (Watts)	25W	25W	20W/130W	30W	40W	40W	80W	80W	30W	30W	6W	8W
Temp. Range	380°C	360-400°C	420°C	200-450°C	420-450°C	470°C	320°C	530°C	430°C	600°C	430°C	380-400°C
Page	200	200	200	200	200	200	200	200	199	199	199	199

Soldering Irons - 240VAC

25W SOLDERING IRON

Ideal for the hobbyist and handy person.
Has a stainless steel barrel and orange cool grip, impact resistant handle.

- Spare tip available TS1466

Our most popular iron!

DURATECH

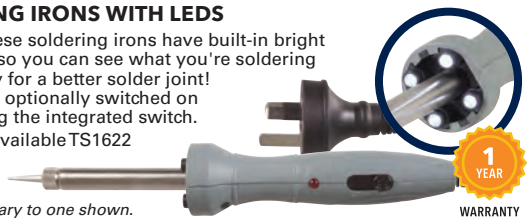
1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Soldering Iron	TS1465	$16.90	$14.90	$13.30
Spare Tip	TS1466	$4.90	$4.10	$3.70

SOLDERING IRONS WITH LEDS

Brilliant! These soldering irons have built-in bright white LEDs so you can see what you're soldering more clearly for a better solder joint! They can be optionally switched on and off using the integrated switch.

- Spare tip available TS1622 -0.5mm conical tip



Colour may vary to one shown.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Soldering Iron	TS1468	$22.90	$20.90	$17.90
40W Soldering Iron	TS1470	$28.90	$25.90	$22.90
Spare Tip	TS1622	$11.90	$10.90	$9.50

20/130W TURBO SOLDERING IRON

Sometimes you need that extra bit of heat in your soldering. Push the little red button on this iron and you get a lot more power - from 20 watts to 130 watts to be precise. Weller-style removable barrel, plated tip and ceramic element.

- Spare tips available: TS1555 - 0.5mm conical tip, TS1556 - 1mm conical tip, TS1557 - 2mm chisel

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
20/130W Turbo Soldering Iron	TS1554	$21.90	$19.50	$17.50
0.5mm Conical Tip	TS1555	$5.90	$5.20	$4.70
1mm Conical Tip	TS1556	$5.90	$5.20	$4.70
2mm Chisel Tip	TS1557	$5.90	$5.20	$4.70

40W SOLDERING IRON

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip impact-resistant handle.

- Fully electrically safety approved
- Spare tip to suit use Cat. TS1476

DURATECH

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
40W Soldering Iron	TS1475	$22.90	$20.30	$17.90
Spare Tip	TS1476	$5.90	$5.20	$4.70

30W TEMPERATURE CONTROLLED SOLDERING IRON

If your budget doesn't extend to a soldering station, you can still have temperature control. This iron is adjustable with a dial on the handle.

- It has a temperature range of 200 - 450°C , high enough for silver soldering if needed
- Plated long-life tip
- Spare tip available TS1542 - 1mm conical tip

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
30W Soldering Iron	TS1540	$36.90	$33.20	$29.50
1mm Conical Tip	TS1542	$5.90	$5.20	$4.70

80W SOLDERING IRON

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

- Ideal for heavy electrical work, lugs, etc.
- Fully electrically safety approved
- Spare tip to suit use Cat. TS1486

DURATECH

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
80W Soldering Iron	TS1485	$27.90	$24.70	$21.90
Spare Tip	TS1486	$10.90	$9.50	$8.50

80W GOOT SOLDERING PENCIL - 240V

This high quality soldering iron is made in Japan by Goot. This soldering iron offers exceptional heat recovery. The ceramic heater is automatically controlled by the heating load of the tip. With its high insulation and low current leakage, soldering of precision flat ICs and CMOS is safe. The heater on/off control uses a zero-volt switch circuit which reduces electrical noise.

- Tip temperature is set at 320°C
- The power lead is made from silicone rubber - very flexible
- The handle incorporates a ribbed rubber piece for extra grip
- Electricity Safety Approval Number SAITE20185

goot

MADE IN

2 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
80W Soldering Pencil	TS1430	$95.90	$86.50	$76.90
0.5mm Conical Tip (As Supplied)	TS1432	$24.90	$22.40	$19.90
0.3mm Conical Tip	TS1434	$24.90	$22.40	$19.90
3.0mm Chisel Tip	TS1436	$24.90	$22.40	$19.90

pick me Soldering Stations

	TS1610	TS1620	TS1564	TS1584	TS1640	TS1440	TS1648 NEW	TS1645
Station Type	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering & Hot Air	Hot Air
Power (Watts)	10W	48W	48W	50W	60W	70W	300W	300W
Temp. Range	100-450˚C	150-450˚C	150-450˚C	350-398˚C*	160-450˚C	200-480˚C	50-500°C	100-450˚C
Display					LED	LED	LED	LED
ESD Safe				•	•	•	•	
Page	201	201	201	203	202	202	202	202

Temperature rating is set by the soldering iron tip.

Soldering Stations - 240VAC

10W SOLDERING STATION - 240VAC

Exceptionally delicate, temperature controlled soldering iron. With low pencil weight will help reduce fatigue on your hands when working for prolonged periods. Compact so you can almost keep it in your toolkit, and still have the precision you need on-site. The delicate pencil has enough power to work with fine components and circuits and good for very thin hookup style cable. Suitable for lead-based and lead-free solder thanks to the 100-450°C temperature range. Temperature is selected with the rotary dial, and the base unit includes an integrated stand.

- Integrated soldering pencil holder

SPECIFICATIONS	TS1610
Recommended Use	Hobby
Power	10W
Temperature Range	100-450˚C
Analogue/Digital	Analogue
ESD Rated	No
Lead-Free Rated	No
Dimensions	100(L) x 65(W) x 63(D)mm, 600g

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 10W	TS1610	$36.90	$32.90	$28.90
Spare Pencil	TS1611	$5.90	$5.30	$4.70

48W SOLDERING STATION - 240VAC

An ideal entry-level soldering station for the hobby user. This station comes with a lightweight iron with anti-slip grip and tip cleaning sponge, with temperature adjustment up to 450°C . It also has a 4mm banana socket connected to mains earth for soldering static-sensitive components.

- Spare tip 0.5mm conical: TS1622

SPECIFICATIONS	TS1620
Recommended Use	Hobby
Power	48W
Temperature Range	150-450°C
Analogue/Digital	Analogue
ESD Rated	No
Lead-Free Rated	No
Dimensions	135(L) x 82(W) x 70(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 48W	TS1620	$71.90	$64.50	$57.50
0.5mm Conical Tip	TS1622	$11.90	$10.90	$9.50

48W SOLDERING STATION - 240VAC

Ideal station for the advanced hobby user. It features accurate analogue temperature adjustment, ceramic element and a lightweight pencil that will give you hours of fatigue-free soldering. The stand has spare tip storage and is very sturdy.

- Spare tips/pencil available

SPECIFICATIONS	TS1564
Recommended Use	Hobby
Power	48W
Temperature Range	150 - 450°C
Analogue/Digital	Analogue
ESD Rated	No
Lead-Free Rated	Yes
Dimensions	150(L) x 115(W) x 92(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 48W	TS1564	$119.00	$106.95	$94.95
Spare Pencil	TS1565	$47.90	$42.90	$38.40
0.5mm Conical Tip	TS1566	$12.90	$11.30	$10.30
2.0mm Chisel Tip	TS1567	$12.90	$11.30	$10.30

For next day delivery, or Click and Collect, see page 5

Soldering Stations - 240VAC CONTINUED

60W ESD SAFE SOLDERING STATION WITH LED DISPLAY - 240VAC *

Featuring a powerful 60W heating element, you can dial in your preferred temperature settings with accuracy thanks to the digital display. It comes supplied complete with a vented soldering iron stand, with integrated sponge and tray to keep it clean. Select from Celsius or Fahrenheit temperature display.

- 30sec warm-up time to 350°C (Approx.)
- High temperature stability
- LED display

SPECIFICATIONS	TS1640
Recommended Use	Hobby
ESD Rated	Yes
Lead-Free Rated	Yes
Analogue/Digital	Digital
Power	60W
Temperature Range	160-480°C
Operating Voltage	240VAC
Dimensions	160(L) x 104(W) x 124(D)mm
Weight	1.5kg

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 60W	TS1640	$179.00	$160.90	$142.90
Spare Pencil	TS1641	$22.90	$20.90	$17.90
0.5mm Conical Tip	TS1642	$10.90	$9.90	$8.90
2mm Conical Tip	TS1643	$10.90	$9.90	$8.90
3mm Bevel Tip	TS1644	$10.90	$9.90	$8.90

70W ESD SAFE ANTI-STATIC SOLDERING STATION WITH LED DISPLAY - 240VAC *

Precision, Japanese manufactured instrument with excellent temperature stability and anti-static characteristics.

SOLDERING PENCIL: Lightweight pencil features a grounded tip, ceramic heater, integrated temperature sensor and very supple silicone rubber grip. The temperature sensor provides precise tip-temperature information to the heater controller, which maintains the selected heat setting with a high degree of accuracy. The tip fits snugly over the heater element providing fast heat transfer and tip temperature recovery during heavy soldering.

- 0.5mm tip supplied

CONTROL UNIT: Includes a digital temperature display unit, rotary temperature control, calibration control and display changeover switch to display either the desired or actual tip temperature. The darkened see-through cover prevents accidental temperature change but allows for easy access when required.

- Control dimensions, weight: 146(L) x 115(W) x 98(H)mm, 1.5kg

SPECIFICATIONS	TS1440
Recommended Use	Trade / Industrial
ESD Rated	Yes
Lead-Free Rtated	Yes
Analogue/Digital	Digital
Power	70W
Temperature Range	200-480°C
Dimensions	146(L) x 115(W) x 98(H)mm

MADE IN

2 YEAR WARRANTY

goot

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 70W	TS1440	$359.00	$325.00	$289.00
Replacement Sponge	TS1445	$9.90	$8.50	$7.50
0.2mm Conical Tip	TS1442	$24.90	$22.40	$19.90
0.5mm Conical Tip	TS1441	$24.90	$22.40	$19.90

300W HOT AIR REWORK STATION WITH LED DISPLAY - 240VAC *

SMD rework is a challenging task, but this rework station helps you get it done. With 300W of power and a selection of tip sizes, it allows you the precision and flexibility required to get it done. By using hot air rather than a soldering iron, you provide a more uniform heat transfer and can melt all solder pads at once, providing a method to remove the chip safely and effectively. You can then clean up the PCB, and use soldering paste (not included) to solder your new chip in place. Temperature selection is done via the digital display and push buttons, while air flow is controlled via the rotary dial. The base unit features an integrated dock for the blower to keep it from burning anything, which also puts it into automatic sleep mode. Lift the blower and it will quickly come back to temperature.

- Automatic sleep function
- LED display
- Variable air flow
- Suitable for SOIC, CHIP, QFP, PLCC, BGA & more

SPECIFICATIONS	TS1645
Recommended Use	Trade / Industrial
ESD Rated	Yes
Lead-Free Rated	Yes
Analogue/Digital	Digital
Power	300W
Temperature Range	100-500°C
Operating Voltage	240VAC
Dimensions	160(L) x 113(W) x 123(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 300W	TS1645	$179.00	$160.90	$142.90
10 x 10mm Quad Tip	TS1577	$16.90	$14.90	$13.90

ESD SAFE SOLDER/DESOLDER REWORK STATION *

NEW

Complete solder/desolder station for professional and hobbyist use. Designed for soldering and desoldering all types of surface mounted IC, PCB, or components, and features an innovative heater and sensor that provides a quick heat-up and rapid temperature recovery. The unit will immediately enter into Working Mode when you pick up the handle, and return to Standby Mode when you put the handle back into the holder. The control unit has two LED displays with controls to the set temperature and the actual tip or nozzle temperature in Celsius and Fahrenheit. The temperature is easily adjusted in 1° increments with simple up/down buttons and the soldering/rework functions can be operated independently of each other. ESD safe. The heat gun can be calibrated from 3L/min to 24L/min and is supplied with 3 extra heat-gun attachments for different size components and jobs. Spare soldering iron tips are available separately.

SPECIFICATIONS	TS1648
Soldering Iron:	4-pin, 24V, 60Watt
Hot Air Pump:	300W
Temperature Range:	
Soldering Iron	50-480°C
Hot Air Pump	100-500°C
Weight:	6kg
Dimensions:	155(L) x 125(H) x 110(W)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rework Station	TS1648	$289.00	$259.00	$229.00
0.5mm Conical Tip	TS1642	$10.90	$9.90	$8.90
2mm Conical Tip	TS1643	$10.90	$9.90	$8.90
3mm Bevel Tip	TS1644	$10.90	$9.90	$8.90

*** ESD means Electro Static Discharge**

Soldering Stations - 240VAC CONTINUED

THERMALTRONICS CURIE HEAT TECHNOLOGY SOLDERING STATION - 240VAC. 50 WATT RATED

1 YEAR WARRANTY

It uses a proven technology, Curie point temp sensing with a new twist. The tip is heated by RF induction to bring the tip up to operating temp. The soldering iron tip is the heater. Older Curie point soldering irons like the famous Weller W-TCP used a separate Curie-switch, heater and tip. There are thermocouples, varistors or other temp sensors that only complicate things on inferior irons. The thermal inertia with the Thermaltronics product is far lower. The system consists of the base power unit which connects to mains 240V. The soldering pencil accepts a cartridge tip (which is also the heating element) and a burn-proof silicon rubber cord. The third element in the system is the pencil iron stand. This stand features a 'dry'-type tip cleaner which is made from machine curled brass and also a standard sulphide free tip sponge.

- Tips can be hot swapped
- Constant tip temperature
- Low power idle
- Under 10 second heat-up
- Rapid recovery from soldering load
- No overshoot
- No calibration needed
- ESD rated
- Can work leaded and unleaded solder

CONCLUSION

This is a very exciting development in soldering technology. We are sure that you will be delighted with this product.

Note: Not stocked at all stores but can be ordered.

† All tips are 350-398°C .

THERMALTRONICS

A must for surface mount hand soldering

SPECIFICATIONS	TS1584
Recommended Use	Serious Hobbyist /Trade /Industrial
ESD Rated	Yes
Lead-Free Rated	Yes

SOLDERING IRON	TS1584
Power	50W
Temperature Range	350°C - 398°C (determined by tip)
Output Frequency	470kHz
Tip to GND Resistance	<2 Ohms DC
Tip tp GND Potential	2mW, true RMS 50 - 500Hz
Dimensions	155(h) x 110(W) x 92(D)mm
Weight	1.3kg

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station (inc 0.5mm Tip)	TS1584	$429.00	$379.00	$339.00
Thermaltronics Replacement Iron	TS1585	$159.00	$142.90	$126.90
0.51mm Conical Tip†	TS1586	$33.90	$29.90	$26.90
0.2mm Conical Sharp Tip*†	TS1589	$39.90	$35.90	$31.90
1.0mm Conical Tip†	TS1587	$33.90	$29.90	$26.90
3.2mm Chisel Tip†	TS1588	$33.90	$29.90	$26.90
5.0mm Chisel Tip*†	TS1590	$39.90	$35.90	$31.90

Spare Parts For Discontinued Soldering Stations

Weller Part	mm	°C	Cat.	Qty 1+	Qty 3+	Qty 6+
PTA6	1.6	315	TS1352	$26.90	$24.20	$21.50

Accessories for TS1574	Cat.	Qty 1+	Qty 3+	Qty 6+
10 x 10mm Quad Tip	TS1577	$16.90	$14.90	$13.90

Accessories for TS1390	Cat.	Qty 1+	Qty 3+	Qty 6+
2.mm Chisel Tip	TS1393	$9.90	$8.90	$7.90

ACCESSORIES FOR TS1513	Cat.	Qty 1+	Qty 3+	Qty 6+
Spare Desoldering Gun	TS1514	$74.90	$67.40	$59.90
Spare Ceramic Heater	TS1515	$22.90	$20.30	$17.90
Spare Filter Set of 2	TS1519	$2.60	$2.30	$2.10
Spare Black Plastic Cap	TS1520	$3.90	$3.60	$3.20

monthly specials & promotions
Lookout for our monthly promotions in store and online.

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

Soldering Accessories

6 PIECE SOLDERING TOOL KIT

This kit provides a selection of hand-tools and accessories invaluable for soldering work. There's a Phillips screwdriver, a pair of spring-loaded tweezers, and a heatsink clip for soldering heat-sensitive components. Three assorted double-ended tools are also included for poking, scraping, leg-bending, and even a wire-brush for flux-removal. A great assortment, supplied in a handy case.

Supplied in a handy case.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
6 Piece Kit	TH1851	$16.90	$14.90	$13.40

SOLDER FUME EXTRACTOR

Removes dangerous solder fumes from the work area. Suitable for use in production lines, service centres, R&D workbenches or the hobbyist. It incorporates a ball bearing high volume fan to maximise airflow which is directed upwards at the rear of the unit to aid in safe dispersion of fumes. ESD safe.

- Spare filters, pack of 5 - sold separately Cat. TS1581
- Dimensions: 260(H) x 200(W) x170(D)mm

Don't pay silly prices elsewhere. This one works fine.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fume Extractor	TS1580	$83.90	$75.50	$66.90
Spare Filters - Pack Of 5	TS1581	$11.90	$10.70	$9.50

For next day delivery, or Click and Collect, see page 5

classic solder:

- 60% Tin / 40% Lead
- 1.0 & 0.71mm diameters available
- Rosin cored
- Rolls & hobby packs available

DURATECH

Size	Hobby Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	15-20g	NS3008	$2.50	$1.90	$1.70
1.0mm	15-20g	NS3013	$2.50	$1.90	$1.70

Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	200g	NS3005	$19.90	$17.90	$15.90
1.00mm	200g	NS3010	$19.90	$17.90	$15.90

Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	1kg	NS3002	$79.90	$71.90	$63.90
1.00mm	1kg	NS3015	$79.90	$71.90	$63.90

lead-free solder:

- 99.3% Tin / 0.7% Copper - Lead Free
- 1.0 & 0.71mm diameters available
- Rosin cored
- Rolls & hobby packs available

DURATECH

Size	Hobby Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	15-20g	NS3086	$3.90	$3.40	$2.90
1.00mm	15-20g	NS3092	$3.90	$3.40	$2.90

Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	200g	NS3088	$29.90	$26.90	$23.90
1.00mm	200g	NS3094	$29.90	$26.90	$23.90

Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	500g	NS3090	$69.90	$62.90	$55.90
1.00mm	500g	NS3096	$69.90	$62.90	$55.90

Flux

SOLDER FLUX PEN - 12ML

A quick drying, no-clean flux for use when removing or replacing surface mount components. Applying the flux to solder joints will aid re-flow when heating the joint to remove the component, or it can be applied to bare copper or tinned tracks providing excellent solderability.

- Dries in 5 to 10mins
- Handy 12ml pen with chisel tip

	Cat.	Qty 1+	Qty 3+	Qty 6+
12ml	NS3036	$15.90	$14.30	$12.70

SOLDER FLUX PASTE - 56G TUB

A mildly-activated agent to provide superior fluxing ability, which enables you to produce high quality soldered joints, and reducing solder waste. The active ingredients in DeoxIT® Rosin Soldering Flux are non-ionic and non-conductive, and ideal for situations when post-soldering cleaning is not possible, and the residue must be highly insulating.

- Non-flammable
- Non-corrosive

	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Flux Paste - 56g Tub	NS3070	$19.90	$17.90	$15.90

Desolder Braid

3MM DESOLDER BRAID

A specially treated piece of braid for removing solder from a PCB. Place the braid over the solder and apply soldering iron to efficiently remove solder. 3mm wide, 1500mm long.

	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3mm Wide	1500mm	NS3020	$3.90	$3.40	$3.00

GOOT DESOLDER BRAID

MADE IN

High quality Goot brand Gootwick, made in Japan. Contains wash-free RMA flux, conforms to MIL-F-14256F.

- Plastic reels
- 1.5m long

	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5mm Wide	1500mm	NS3026	$7.90	$7.20	$6.50
2.0mm Wide	1500mm	NS3027	$7.90	$7.20	$6.50
3.0mm Wide	1500mm	NS3028	$7.90	$7.20	$6.50

Silver Solder

"SILVER" SOLDER

Far, far stronger than tin/lead solder. The product is basically pure tin with around 4% silver. It contains no lead or cadmium. It melts at 221°C so could be actually soldered with a very hot soldering iron but best results are with a butane type blowtorch. Includes an adequate amount of liquid flux which is basically zinc chloride, water, ammonia and other chlorides. The flux is an eye irritant so safety goggles should be worn.

- 14g solder with 14g of flux
- MSDS supplied
- Wire diameter: 1.16mm approx
- Coil length: 1.8m approx

	Cat.	Qty 1+	Qty 3+	Qty 6+
14g Solder + 14g Flux	NS3045	$28.90	$25.90	$22.90

Desolder Tools

PLASTIC DESOLDER TOOL

ABS plastic body with strong suction. Very easily cleaned. Total length including tip 195mm.

TH1860

	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH1860	$15.90	$14.30	$12.70
Spare Tip	TH1861	$4.90	$4.10	$3.70

METAL DESOLDER TOOL

Made of lightweight metal and has strong suction.

TH1862

- Constant vacuum force
- Cleans itself with each action
- Replacement tip (Teflon)
- Total length incl tip - 195mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH1862	$21.90	$19.70	$17.30
Spare Tip	TH1863	$5.90	$5.20	$4.70

DELUXE GOOT DESOLDERING TOOL

MADE IN

High quality GOOT brand desoldering tool. Japanese built quality and a large vacuum chamber for strong suction.

- Large vacuum chamber - Total length: 330mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH1856	$33.90	$29.90	$26.90
Spare Tip	TH1857	$10.90	$9.50	$8.50

SOLDER SUCKER & BLOWER BULB

A quick & simple bulb type solder sucker that is cheap, compact and effective. Buy two or three and you will always have one handy.

- Approximately 50(D) x 110(L)mm
- Versatile! Suck or blow

	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Sucker	TH1850	$8.90	$7.90	$6.90

free boxes!

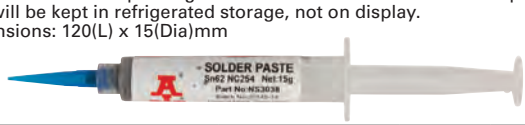
MOVING HOUSE? NEED SOMETHING FOR STORAGE?

In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

Solder Paste

CLASSIC SOLDER PASTE - 15G SMD SYRINGE

Ideal for surface mount work and rework, solder paste provides a quick and easy soldering solution. Supplied in a syringe for easy application, simply apply it to the soldering pads, put your components in place and heat it with your soldering iron. Solder paste can go off in storage: we've found a local supplier so you can always be confident that the paste you get will be fresh. 63% tin 37% lead. Solder paste is best kept cool for long life and should be kept refrigerated. Please ask sales staff for this product, as it will be kept in refrigerated storage, not on display.
Dimensions: 120(L) x 15(Dia)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
15g	NS3046	$17.90	$16.10	$14.30

LEAD-FREE SOLDER PASTE - 10G SMD SYRINGE

Lead free solder paste syringes provide a quick and easy soldering solution for your surface mount work and rework. The superior wetting ability of this paste results in bright, smooth and shiny solder joints with lead free alloys. Supplied in a syringe for easy application, simply apply to the soldering pads, put your components in place and heat it with your soldering iron or hot air rework tool.

	Cat.	Qty 1+	Qty 3+	Qty 6+
10g	NS3048	$17.90	$16.10	$14.30

Stands, Cleaners & PCB Holders

SOLDERING IRON STANDS

ECONOMY

General-purpose stand for just about any electronics soldering iron. It has a large, thirsty tip-cleaning sponge & pressed metal base.

- Base: 84(W) x 130(D) x 25(H)mm
- Holder: 105(L) x 40(W)mm
- Complete height: 120mm

DELUXE

Ideal for heavier soldering irons. It features a hefty cast iron base with removable sponge tray and twin spiral iron holder.

- Base: 78(W) x 115(D) x 30(H)mm
- Holder: 135(L) x 45(W)mm
- Complete height: 145mm

TS1502

TS1507

	Cat.	Qty 1+	Qty 3+	Qty 6+
Economy Stand	TS1502	$11.90	$10.70	$9.50
Spare Sponge To Suit Ts-1502	TS1503	$3.50	$2.90	$2.60
Deluxe Stand	TS1507	$21.90	$19.70	$17.30
Spare Sponge To Suit Ts-1507	TS1508	$4.90	$4.10	$3.70

SOLDER STAND WITH SOLDER DISPENSER

Every technician needs one of these on their workbench! It will hold our solder reels and the solder is fed through the guide. It has a handle, so it can easily be carried, and it can be wall mounted to be right there where you always need it.
The base is super heavy so even when the solder reel is nearly empty it will feed ok.

- Shaft diameter is 16mm and will hold our 1kg rolls
- Weight 620g
- Dimensions: 90(L) x 100(W) x 110(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS1504	$24.90	$22.40	$19.90

GOOT SOLDERING IRON TIP CLEANER

The "curly brass" insert doesn't need to be kept wet and cleans without damaging the tip. Uniform iron temperature ensures consistent joint quality and reduces cycle times. It's made from a heavy-duty heat-resistant rubber base that won't slip around on the bench, is static-safe and is also suitable for lead-free solders.

- Supplied with spare insert
- Dimensions-Insert: 45(Dia) x 30(H) mm / Overall: 58(Dia) x 58(H)mm

MADE IN

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS1510	$21.90	$19.30	$16.90

SOLDERING IRON TIP CLEANING PASTE

MADE IN

A healthy tip makes for easier soldering and better heat transfer. This tip contains powdered solder and noncorrosive flux, so all you need to do is dip your hot soldering tip in, and it will clean and tin in one simple action.

	Cat.	Qty 1+	Qty 3+	Qty 6+
15g Tin	TS1512	$15.90	$13.70	$12.30

PCB HOLDER

Holds a PCB up to 200 x 140mm in size. The PCB is held in place by spring clamps and can be rotated through 360o at increments of 15o. The base is heavy with well-balanced centre of gravity and built-in rubber feet to ensure you have a firm working surface. Suitable for working with different shaped components, connectors, soldering strips, etc.

- Max holding size: 200(L) x 140(W)mm
- Dimensions: 300(L) x 165(W) x 125(H)mm, 450g

PCB not included.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
PCB Holder	TH1980	$24.90	$22.40	$19.90

PCB HOLDER WITH LED MAGNIFIER

1 YEAR WARRANTY

Ideal aid for PCB assembly, soldering work, model making and any application where a third hand is needed. This helping hand has a magnifying glass with LED light that provides continuous light for up to 10 hours. The two strong alligator clips can be adjusted in numerous ways to hold the board as you solder. Heavy cast iron base ensures added stability. Comes complete with a soldering iron holder.

- LED: 2 x White LED
- Lens size: 90(Dia.)mm
- Lens magnification: 2x
- Power: Requires 3 x AAA batteries
- Dimensions:
  Overall height: 190mm
  Base dimensions: 114(L) x 75(W) x 29(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1987	$24.90	$22.40	$19.90

LED MAGNIFYING LAMP WITH THIRD HAND

1 YEAR WARRANTY

The multi-purpose tool offers an excellent all round solution, ideal for working on small to medium PCBs, components, soldering etc. The magnifying lamp with integrated 3rd hand is intended for illuminating work areas and it is equipped with a magnifying glass. This device also comes with a soldering iron stand, alligator clips, soldering wire spool holder, sponge as well as a cleaning ball. Powered by 4 x AA batteries (not supplied).

- Magnifying glass lens size 90mm
- Magnification: 3x
- LED illumination: 16 LEDs
- Neck (for magnifying glass) length: 265mm
- Neck (for alligator clips) length: 250mm
- Sponge size: 30 x 50mm
- Base size: 190 x 170mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1989	$54.90	$49.40	$43.90

For next day delivery, or Click and Collect, see page 5

Sprays & Aerosols

Note: AEROSOLS CANNOT BE SENT BY AIR

LITHIUM GREASE

Long-lasting heavy duty lubricant grease for bearings, sliding mechanisms, battery terminals, chains, sprockets or other moving parts. White in colour so it forms a kind of thick, milky sea in the lubricated area. Reduce friction, protects against corrosion.

	Cat.	Qty 1+	Qty 4+	Qty 10+
400g	NA1015	$11.90	$10.70	$9.50

DUST REMOVER

Non CFC. Non flammable gas which allows removal of dust from electronic, electrical and optical devices. It does not leave residues and is non toxic and non conductive.

- Much safer than flammable versions sold elsewhere

	Cat.	Qty 1+	Qty 4+	Qty 10+
250g	NA1018	$24.90	$22.40	$19.90

FREEZING SPRAY

MADE IN

Non CFC ozone safe propellant. Instant freeze spray for rapidly cooling components to detect intermittent thermal faults, dry joints and overheating problems.

- Non-flammable

	Cat.	Qty 1+	Qty 4+	Qty 10+
250g	NA1000	$24.90	$22.40	$19.90

CONTACT CLEANER LUBRICANT

MADE IN

A blend of non CFC solvents and RF contact treatment oil. Ideal for cleaning and lubricating non-arcing contacts and mechanisms. Can be used for cleaning & lubricating all types of contacts. Safe on most plastics.

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1012	$13.90	$12.30	$10.90

PTFE DRY LUBRICANT SPRAY

MADE IN

This water displacing PTFE lubricant is formulated to provide a dry, lubricating film that is perfect for use with electronic & mechanical assemblies, chains & sprockets, rollers, runners, & power tools etc. It prevents rusting on ferrous metals and helps loosen stiff or sticking parts. The spray can be used in automotive, marine and household environments.

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1013	$16.90	$14.90	$13.90

BUTANE GAS

MADE IN

Use it for filling up your gas soldering iron, flame torches, cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves.

- Includes filling instructions

5 adaptors supplied.

	Cat.	Qty 1+	Qty 4+	Qty 10+
150g	NA1020	$5.60	$5.00	$4.45

CIRCUIT BOARD LACQUER

MADE IN

Non CFC ozone safe propellant. Premium quality flexible coating to protect printed circuit boards from humidity and environmental attack. Special solder through lacquer so previously coated boards can be soldered.

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1002	$13.90	$12.30	$10.90

ELECTRONIC CLEANING SOLVENT

MADE IN

Non CFC ozone safe propellant. A highly efficient fast drying solvent of high purity. For use on delicate electronic, electrical & precision mechanical assemblies (i.e. tuners, switches, plugs, sockets, relays, pots, etc).

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1004	$13.90	$12.30	$10.90

SPRAY-ON CONTACT ADHESIVE

MADE IN

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet in/ on speaker cabinets etc.

	Cat.	Qty 1+	Qty 4+	Qty 10+
400g	NA1504	$21.90	$19.70	$17.30

ELECTRONIC CIRCUIT BOARD CLEANER

MADE IN

Non CFC ozone safe propellant. It may not be obvious, but many circuit problems occur when flux and other contaminents (even finger prints) remain on the PCB causing 'leakage' between tracks. If you work with RF, high impedance (i.e. FET Op-Amps etc), ioniser or other circuits, PCB cleanliness is a MUST. This is a spray that dissolves flux residues & grime leaving the track work and board absolutely clean. We then recommend that you 'tropicalise' the board with circuit board lacquer (NA1002).

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1008	$13.90	$12.30	$10.90

INOX-MX3 LUBRICANT

MADE IN

This product is similar to popular water displacement products EXCEPT that it does not contain silicone or kerosene based solvents etc. Indeed, it is so benign it can be used around food. It is also ideal for seized nuts or screws, freeing up hinges, door locks, as a cutting or tapping & other machining agent. As the product is nonconductive, it is ideal for removing moisture from car distributors, switches, potentiometers, solenoids etc. It does not dry or wash out in water. You will be delighted with this product. Two sizes are available:

Cat. NA1022 125g Pump Pack (can be sent by post)

Cat. NA1024 300g Aerosol Spray (can't be sent by post)

NA1022

NA1024

	Cat.	Qty 1+	Qty 4+	Qty 10+
125g	NA1022	$9.90	$8.90	$7.90
300g	NA1024	$14.90	$13.90	$11.90

ISOPROPYL ALCOHOL 99.8% SPRAY

MADE IN

Isopropyl alcohol is one of the most useful service aids you can have around. It has many of uses such as head cleaning, surface cleaning and prep, contact cleaning, stain removal in the laundry etc. It's also a medical-grade surface disinfectant. Easy to use pump pack spray bottle & dries quickly.

- 99.8% concentration

	Cat.	Qty 1+	Qty 4+	Qty 10+
250ml	NA1066	$11.90	$10.70	$9.50
300g	NA1067	$12.90	$11.30	$10.30

AEROSOL BUTANE GAS WITH BAYONET FITTING 4 PACK

Butane cartridges commonly used in gas stoves, heaters and butane gas blow torches.

- Capacity: 220g each
- Size: 68(Dia.) x 180(H)mm

	Cat.	Qty 1+	Qty 4+
4 x 220g	NA1021	$8.90	$8.00

find out more in store

Our staff offer friendly and helpful service. We're here to help.

Water Displacing Lubricants

WATER DISPLACING LUBRICANT SPRAY CAN

Multi-use water displacing and rust preventing lubricant specially formulated for use with electronic and mechanical assemblies.
Displaces moisture from metal surfaces including: relays, switches,distributors etc...
Quickly penetrates rusted and corroded metal parts like nuts and bolts, valves, tools...
Also removes grease, chewing gum, adhesives, crayons from most surfaces.

	Cat.	Qty 1+	Qty 4+	Qty 10+
175g	NA1025	$5.90	$5.30	$4.70

WD40 150G SPRAY CAN

Multi-use water displacing and rust preventing lubricant specially formulated for use with electronic and mechanical assemblies.
Displaces moisture from metal surfaces including: relays, switches,distributors etc.
Quickly penetrates rusted and corroded metal parts like nuts and bolts, valves, tools.

	Cat.	Qty 1+	Qty 4+	Qty 10+
150g	NA1029	$9.90	$8.90	$7.90

tech talk God-Like Spray Can Behaviour

Many people will not go anywhere without a can of WD40. It is a great product and you will find it on this page. It is not the only God-in-a-can product that we stock, however. We also carry a similar product to WD40 called WD Lube (also on this page).
(WD means water displacement).The water displacement property is basically an oil which is silicone based. Silicone oil is very effective, for example, if you need to spray inside an automotive ignition distributor cap to stop short circuiting from water. (Indeed the original WD40 type products were made specifically to clear automotive ignition problems from water ingress). A further refinement is a product called INOX MX3. It does not contain petroleum or silicone based products and is indeed non-poisonous (the other products are not strictly poisonous, just obnoxious to taste) so much so that you can spray INOX near food. All God-in-a-can products have come a long way from their original automotive use.They have great anti-corrosion and lubrication properties, for example.They continue to find applications all over the place, but with modern ignition systems you can probably safely leave home without a can.

Tape

PVC INSULATION TAPE - 20M

High quality insulation tape suitable for wrapping electrical wires.
- Tape thickness: 0.18mm
- Roll length: 20m
- Self-Extinguished within 2 seconds after being on fire
- Voltage breakdown: 8.0kV

		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	20m	NM2856	$2.20	$1.90	$1.70

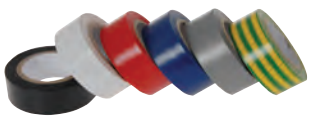
PVC INSULATION TAPE

Top quality PVC tape.
- Two sizes and six colours available
- 18mm wide

NITTO DENKO

Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	5m	NM2800	$1.55	$1.35	$1.15
Blue	20m	NM2801	$3.60	$3.20	$2.85
Red	20m	NM2802	$3.60	$3.20	$2.85
Black	20m	NM2803	$3.60	$3.20	$2.85
White	20m	NM2807	$3.60	$3.20	$2.85
Ylw/Gn	20m	NM2804	$3.60	$3.20	$2.85

INSULATION TAPE - 5M - 6 PACK



Contains one roll each of black, white, red, blue, yellow and green.
- 19mm wide
- Each 5 metres in length
- Pack will vary from picture

	Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 6	NM2806	$4.80	$4.30	$3.80

GAFFER TAPE - 25M

This is not your cheap plastic stuff. It is the genuine cloth-backed tape that you can split with your thumbnail. This waterproof tape is black in colour, low sheen and is the industry standard 48mm wide. Commonly called "100 mile an hour" tape, or "gaffer" tape, it was originally developed for the air conditioning industry.
- It is very adhesive and very strong
- Ideal for taping down leads on stage
- Repairing flexible duct work
- Other public address setups
- Holding things together in general. A must in every toolbox!

		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	25m	NM2810	$18.90	$16.90	$14.90

NASHUA GAFFER TAPE - 40M

PREFERRED BY THE PROFESSIONALS.
Genuine Nashua brand Gaffer tape. Professional quality 40 metre rolls in both black and silver. Leaves no residue behind and sticks to most clean surfaces, including carpet. 48(W)mm x 40(L)m.

Ideal for:
- Outdoor concerts & exhibitions
- Theatre & school productions
- Television studios
- Car racing

		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	40m	NM2812	$42.90	$37.90	$33.90
Silver	40m	NM2814	$42.90	$37.90	$33.90

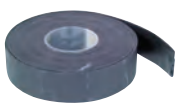
GENUINE "GAFFER" BRAND TAPE IN HI-VIZ COLOURS - 10M

Genuine made-in-USA 24mm wide x 10m roll in Hi Viz fluoro green or hot pink. Matte finish. Ideal for highlighting a piece of equipment, avoiding a hazard, etc.
100s of uses.
- Waterproof
- 24mm wide x 10m

NM2813 NM2815

		Cat.	Qty 1+	Qty 4+	Qty 10+
Chrome Fluoro Green	10m	NM2813	$18.90	$17.00	$15.10
Hot Fluoro Pink	10m	NM2815	$18.90	$17.00	$15.10

SELF AMALGAMATING TAPE - 10M



This insulating tape will "cure" into a single mass (once applied) to help seal and waterproof cable, wires or even pipes. The tape has good corona resisting properties and can be used on high voltage cables. Useful where water and chemical resistance is important.

	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	NM2826	$24.90	$22.30	$19.70

ALUMINIUM FOIL TAPE - 50M

To be used in any number of situations including RF shielding.
- Foil thickness: 0.04mm
- Raw material: Aluminum foil, Acrylic-based adhesive
- Width 25mm or 50mm
- Application Temp.: -20 to 120oC

		Cat.	Qty 1+	Qty 4+	Qty 10+
50mm	50m	NM2860	$21.90	$19.30	$16.90
25mm	50m	NM2862	$15.90	$14.30	$12.70

For next day delivery, or Click and Collect, see page 5

Tape CONTINUED

COAX SEAL TAPE

This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat shrink tubing when access is difficult.

- 12(W)mm x 1.5(L)m
- Used by NASA & US Military

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	NM2828	$15.90	$13.70	$12.30

DOUBLE SIDED MOUNTING TAPE

Thousands of uses, from mounting PCBs in your project to putting up your Nerd Perks workshop guide. Both are double-sided and the NM2821 is also foam-backed.

- 12mm wide
- Two roll sizes

	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	NM2821	$5.90	$5.20	$4.70
25m	NM2823	$4.90	$4.10	$3.70

UGLU® INDUSTRIAL GLUE STRIPS

Make quick repairs without tools. Simply cut a strip to the size you need, then fix just like double-sided tape to create a permanent, instant bond. Bonds to just about anything - carpet, plastic, canvas, wood, metal, tile, plasterboard, cement, paper, glass, even on rough surfaces. Non-toxic, acid free, no mess. Millions of uses at home, office and workshop. Pack contains eight 75 x 30mm strips.

- Instant bond, permanent hold
- Waterproof and weatherproof
- Removable - Safe for kids to use
- Made in USA

		Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 8	75 x 30mm	NA1522	$10.90	$9.80	$8.70

SILICON PROTECTIVE AND REPAIR WRAP - TUFF TAPE

1 YEAR WARRANTY

TUFF TAPE is a self-bonding wrap made from a special high quality silicone rubber compound which adheres to itself when wrapped under tension. The tape forms a non-conductive, air and water tight, insulating seal. Hundreds of uses including emergency radiator hose repair, plumbing or garden hose repair, extension cord connections, marine, sport and tool grips, etc. Buy one for the glove box and another for the tool box.

- Won't melt up to +260°C ,
- Will repair a burst radiator hose
- Remains flexible down to -50°C
- Tensile strength of 600psi
- Insulates to 400 volts/mil
- 25mm wide x 3m long

NA2830

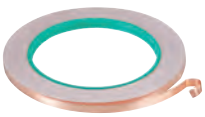
NA2832

NA2834

		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	3m	NA2830	$16.90	$14.90	$13.40
Red	3m	NA2832	$16.90	$14.90	$13.40
Clear	3m	NA2834	$16.90	$14.90	$13.40

ADHESIVE COPPER TAPE 5MM X 10M

Copper Tape with adhesive backing.



- Solderable
- Repair printed circuit boards
- Create antennas and shielding
- 5mm x 10m

	Cat.	Qty 1+	Qty 4+	Qty 10+
25m Roll	NM2870	$7.90	$7.10	$6.30

Adhesives

EPOXY BOND 34ML

Bonds in approximately 4 minutes to give a colourless, permanent bond. Maximum strength after 1 hour. Ideal for rigid plastics, metal, glass, concrete, china & pottery. Supplied in dual tubes.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA1510	$9.90	$8.90	$7.90

PLASTICWELD EPOXY PUTTY

NEW

After mixing, it forms a polymer compound that can be moulded or used to build up and repair just about anything made from plastic. When cured, it can be sawed, drilled, carved, sanded and painted. Great for rigid & semi-flexible plastic, ABS, PVC & CPVC pipes, automotive trim & bumpers, fibreglass parts, vinyl siding, etc.

- 20-25 minute work life; functional cure occurs in 2-3 hours
- Cures to an off-white colour
- Rated at a tensile strength of 350 PSI
- 57g tube

Note: Does not adhere to polyethylene, polypropylene or some other plastics. Test for adhesion first.

	Cat.	Qty 1+	Qty 4+
	NA1526	$18.90	$16.90

THREADLOCKER COMPOUND

NEW

Use it to lock and seal threaded fasteners to prevent loosening on vibrating parts such as pumps, motor mounting bolts, gearboxes, etc. Tolerant of oil and other contaminants, it also protects threads from rust and corrosion.

- Ideally suited for fasteners between 6 and 20 mm diameter
- Cures reliably even on stainless steel

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA1528	$14.90	$13.90	$11.90

J-B WELD EPOXY

We think that this is the best epoxy glue you can buy!

Use it as adhesive, plug filler, sealant or electrical insulator. Like metal, it can be formed, drilled, ground, tapped, machined, filled, sanded and painted. It has an open time of about 30 minutes sets in 4-6 hours, and cures fully in 15-24 hours. It's waterproof, petroleum, chemical, and acid-resistant; resists shock, vibration and temperature variations. Bonds almost any combination of iron, steel, copper, aluminium, brass, bronze, pewter, porcelain, ceramic, marble, glass, PVC & ABS, concrete, fibreglass, wood, fabric - just about any porous / non-porous material.

- Mechanical properties (kPa):
  Tensile strength: 27300,
  Adhesion: 12400 /Tensile Lap Shear: 7170
- Shrinkage: 0% / Heat resistance: 260°C
- Contents: 25ml

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA1518	$17.90	$15.90	$14.30

JB WELD STEELSTIK™ EPOXY PUTTY

SteelStik™ sets in 3-5 minutes and after 60 minutes, can be drilled, tapped, machined, ground, filed and painted. SteelStik™ cures to a dark grey colour, is rated at a tensile strength of 900PSI and will withstand temperatures up to 148°C. Drinking water safe.

Applications include:

- Automotive & Machine Parts
- Exhaust Systems
- Plumbing
- Stripped Threads
- Rust Damage
- Household Repairs
- Fuel Tanks
- 57g (2oz)

	Cat.	Qty 1+	Qty 4+	Qty 10+
JB Weld SteelStik™ Epoxy Putty	NA1519	$16.90	$14.90	$13.90

3 SECOND SUPER GLUE

Ideal for plastics, wood, rubber, glass, metal and ceramics. It sticks in seconds and needs no clamping.

- Supplied in a small tube of 3 grams

	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA1500	$2.50	$2.00	$1.80

LIQUID ELECTRICAL TAPE/THREAD LOCKER

This liquid can be used instead of insulation tape. Simply brush it on and it will insulate and seal out moisture. Once dry, it is acid & salt resistant and won't crack, peel or harden even under extreme conditions. This is a very versatile product and can be used for such diverse applications as stopping screws from vibrating loose or ropes unravelling. Available in two colours.

	SIZE	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	118ml Can	NM2832	$36.90	$33.20	$29.50
Red	118ml Can	NM2834	$36.90	$33.20	$29.50
Black	28g Tube	NM2836	$18.90	$16.90	$14.90
Red	28g Tube	NM2838	$18.90	$16.90	$14.90

Side Cutters

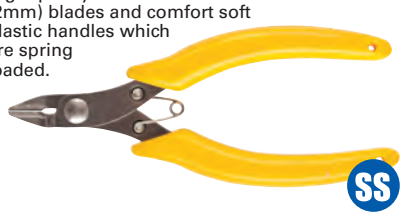
127MM - PRECISION ANGLED SIDE CUTTERS

Precision side cutters that are ideal for fine PCB work. They will easily cut leads flush with the board's surface.
The cutters are made from quality tool steel and have soft padded handles that are spring loaded for comfortable long term use.

	Cat.	Qty 1+	Qty 3+	Qty 6+
127mm	TH1897	$15.90	$14.30	$12.70

115MM - STAINLESS STEEL SIDE CUTTERS

High quality small side cutters that have thick (2mm) blades and comfort soft plastic handles which are spring loaded.



	Cat.	Qty 1+	Qty 3+	Qty 6+
115mm	TH1890	$16.90	$14.90	$13.30

110MM - FUJIYA SIDE CUTTERS

Beautifully engineered, perfect for cutting super fine wire as well as general workshop use. They aren't just good to look at, they are tough as well and can cut steel wire up to 1.6mm without harm. The insulated handles are spring loaded for effortless use.

- Blade hardness: Rockwell C Scale 57~61
- Soft grip handle

MADE IN

	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH2332	$39.90	$35.90	$31.90

150MM - PRECISION SIDE CUTTERS

These cutters are made from the same high carbon steel as our TH1885 long nose pliers and are designed for sharp cutting in precision wiring. They have insulated soft-touch handles and a coil return spring for fatigue-free use.

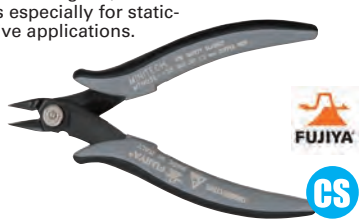
MADE IN

ENGINEER®

	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH1891	$48.90	$44.00	$39.10

135MM - ESD SAFE SIDE CUTTERS

Specifically for ESD work. High quality Japanese designed, Italian manufactured cutters especially for static-sensitive applications.



	Cat.	Qty 1+	Qty 3+	Qty 6+
135mm	TH1922	$44.90	$40.40	$35.90

Long Nose Pliers

150MM - PRECISION LONG NOSE PLIERS

Precision, slim line long nose pliers that are ideal for working in confined areas. They have serrated jaws so you can get a firm grip on the item you're holding. The pliers are made from quality tool steel and have soft padded handles that are spring loaded for comfortable long term use.

	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH1887	$15.90	$14.30	$12.70

145MM - STAINLESS STEEL LONG NOSE PLIERS

The partner to our TH1890 stainless steel cutters. These have half round smooth gripping jaws perfect for adjusting and bending components, picking up that dropped nut, etc. Comfortable soft plastic handles which are spring loaded.

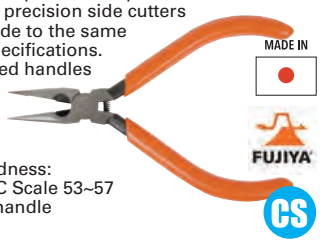
	Cat.	Qty 1+	Qty 3+	Qty 6+
145mm	TH1893	$16.90	$14.90	$13.30

110MM - FUJIYA PRECISION LONG NOSE PLIERS

These are the perfect companion for our TH2332 precision side cutters and are made to the same exacting specifications. The insulated handles are spring loaded for effortless use.

- Blade hardness: Rockwell C Scale 53~57
- Soft grip handle

MADE IN



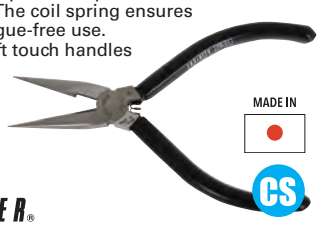
	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH2334	$39.90	$35.90	$31.90

125MM - PRECISION LONG NOSE PLIERS

1 YEAR WARRANTY

These quality pliers are made in Japan from the same high carbon steel that is used to make professional chef's knives. The pliers feature serrated jaws and a box joint to provide a precise action and strong grip. The coil spring ensures smooth, fatigue-free use.
Insulated soft touch handles

MADE IN



ENGINEER®

	Cat.	Qty 1+	Qty 3+	Qty 6+
125mm	TH1885	$41.90	$37.90	$33.40

Cutters & Pliers Set

STAINLESS CUTTER / PLIERS SET

Set of five 115mm cutters and pliers for electronics, hobbies, beading or other crafts. Stainless steel with soft ergonomic grips.

Contents:

- Flush cutters
- Long nose pliers
- Flat nose pliers
- Bent nose pliers
- Round nose pliers

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1812	$39.90	$35.90	$31.90

When Stainless Steel Is Not The Best!

We are big fans of stainless steel. We love it in tools, fasteners & many building products. It is not, however, always the best material. Top chefs will tell you, for example that the best knives are not stainless, they are made out of carbon steel.

Why? Carbon steel is far harder & tougher than stainless. The problem of course is that carbon steel will rust if not maintained. In our search for the best hand-tools we have decided to stock two very high quality Japanese-made products made out of carbon - steel. They are not cheap but they are for the professional user whose time is money. Like carbon steel knives, rust is not a problem if used constantly.

They will, however, pay you back every day because they will stand up to heavy wear & tear.

For those who have only occasional use for hand tools, we sincerely recommend stainless steel products.

To avoid confusion we have put a small logo "SS" nominating which tool is made out of stainless, and "CS" meaning carbon steel.

SS

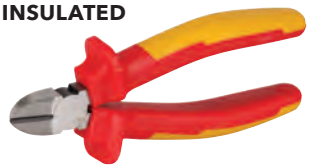
automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

For next day delivery, or Click and Collect, see page 5

Pliers & Cutters

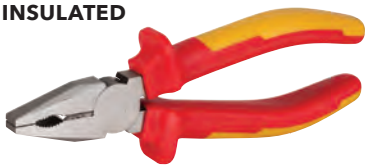
160MM (6") SIDE CUTTERS - INSULATED



This drop forged alloy tool is made to the same standards as our TH1984 combination pliers. It is just as tough and will also cut piano wire up to 1.6mm. This is a quality tool and designed for dedicated wire cutting.
It has comfortable double inset handles.
• 160mm / 6" long

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1985	$29.90	$26.90	$23.90

180MM (7") BULL NOSE PLIERS - INSULATED



Strong, Tough & Reliable. These high quality drop forged alloy steel pliers are a professional tool and manufactured to the rigid German DIN standards for electrical safety & mechanical strength. They are for serious tradesmen who need a quality tool. These pliers will cut hard (piano wire) wire up to 1.6mm & soft (annealed copper, aluminium silver etc,) up to 4.0mm. Non slip double inset handles are comfortable to hold.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1984	$29.90	$26.90	$23.90

170MM (6.5") LONG NOSE PLIERS - INSULATED

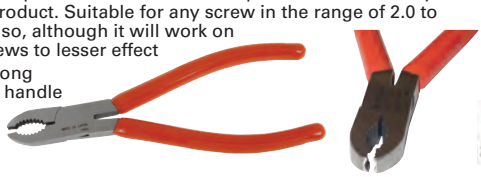
You can see the quality German design in these strong and attractive pliers. They are drop forged to the same standards as the other tools in the range and have the same cutting capacity - up to 4.0mm electrical wire. A very attractive tool with comfortable handles. The high quality manufacture means they can take the work and last for ages. This could be the last pair of long nose general purpose pliers you need to buy!
• 70mm / 6.5" long

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1986	$29.90	$26.90	$23.90

Specialty Pliers

175MM - SCREW REMOVING PLIERS

This tool is basically designed to remove, by brute force, a hopelessly stripped out head of any type of small non-countersunk screw. The secret is an oval-shaped serrated hole in the end of the plier. You place the plier over the head of the screw, grip and rotate the plier. This system applies a lot more torque to the head of the screw than a drill bit ever could. It's reminiscent of the plier that a dentist used to extract your tooth!! Its Japanese manufacturer has provided a beautifully made and finished product. Suitable for any screw in the range of 2.0 to 5.0mm or so, although it will work on larger screws to lesser effect
• 175mm long
• Soft grip handle



MADE IN

FUJIYA

Cat.	Qty 1+	Qty 3+	Qty 6+
TH2330	$34.90	$31.90	$27.90

75MM (3") SHEET METAL BENDING PLIERS

Bend sheet metal easily with this heavy duty offset hand tool. Features strengthened rivets and dual layered pitted handle for a firm grip.
• Jaw width: 75mm
• Jaw depth: 30mm
• Overall length: 210mm
• *Thin gauge aluminium, brass, etc. Not suitable for steel over 0.8mm thick.*

Cat.	Qty 1+	Qty 3+	Qty 6+
TH2336	$34.90	$31.90	$27.90

Tweezers

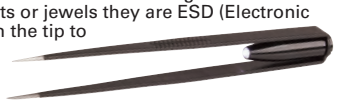
ANTI-MAGNETIC PRECISION TWEEZERS

These are high quality tweezers made from anti-magnetic, anti acid steel. Perfect for handling SMD components, jewels or general electronic components.
• Length 110mm
• Supplied with protective nylon cap

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1754	$5.90	$5.30	$4.80

ESD SAFE TWEEZERS WITH LED ILLUMINATION

These precision tip tweezers are ideal for picking up tiny objects with the added benefit of a LED light to illuminate the item being handled. Ideal for working with SMD components or jewels they are ESD (Electronic Discharge) safe and have teeth on the tip to ensure reliable grip on items.
• Includes 3 x SR41 batteries
• Dimensions: 155(L) x 15(W) x 10(H)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1761	$12.90	$11.30	$10.30

STAINLESS STEEL TWEEZER SET

A set of 4 tweezers, three supplied with vinyl handles, comprising:
1 x self closing pointed type
1 x long curved pointed
1 x long fine pointed
1 x flat spatula type
Approximate length 115mm.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1752	$10.90	$9.50	$8.50

STAINLESS STEEL TWEEZER SET - ESD SAFE

A set of 3; duckbill head, angled fine and straight superfine enable you to manipulate surface mount components or other tiny items with ease. ESD coating on main body of tweezers greatly reduces static discharge issues.
• Measures: Angled & duckbill 120mm, superfine 135mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1760	$24.90	$22.40	$19.90

Other Tools

INSPECTION MIRROR

Low cost inspection mirror. Ideal for looking into hard to get places
• Length: 160mm
• Mirror dia: 24mm

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1872	$5.90	$5.20	$4.70

FORCEPS (HAEMOSTATS)

These clamps are made of stainless steel and can be locked on to the item they are holding. They are 130mm long, so they are ideal to reach into hard-to-get-at places. Also great for holding components etc., whilst soldering.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1755	$10.90	$9.50	$8.50

Screwdrivers

HIGH QUALITY JEWELLER'S SCREWDRIVERS

Each screwdriver has a rotating top, larger handle and a strong chrome vanadium tip providing a comfortable finger/palm rest and an easily turned body. These look very similar to those expensive German ones.

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
1.0mm Slot Tip	TD2060	$4.50	$3.70	$3.30
1.5mm Slot Tip	TD2061	$4.50	$3.70	$3.30
2.0 mm Slot Tip	TD2062	$4.50	$3.70	$3.30
#000 Phillips	TD2064	$4.50	$3.70	$3.30
#00 Phillips	TD2065	$4.50	$3.70	$3.30

JEWELLER'S SCREWDRIVER SET

All metal precision screwdrivers for watchmakers, jewellers, modelmaking or just fixing the sunnies. Set of six.

- Slotted: 1.0, 1.2 & 1.6mm
- Phillips: #00, #0 & #1

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2023	$11.90	$10.70	$9.50

6 PIECE INSULATED ELECTRONIC SCREWDRIVER SET

These screwdrivers have ergonomic handles with excellent non-slip grips. The shafts are fully insulated and rated for 1000V. The set contains all the smaller sizes you need for working on electronic gear. Storage case included.

- Slotted: 2mm, 2.5mm, 3mm
- Phillips: #00, #0, #1
- 1000V rated
- TÜV and GS approved
- Case: 192(L) x 130(W) x 26(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2026	$24.90	$22.40	$19.90

Tool & Workbench Accessories

TOOL MAGNETISER / DEMAGNETISER

Magnetised screwdrivers make life easier. This tool has two slots, one which will magnetise and the other to demagnetise. The holes are large enough for the largest of screwdrivers.

- 50 x 50 x 30mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2042	$8.90	$7.90	$6.90

HANDY MAGNET STRIP

You'll find dozens of uses for this innovative magnetic storage system. It can be attached to walls, tables or other surfaces to hold tools, brushes, scissors, key rings or any other object that contains iron.

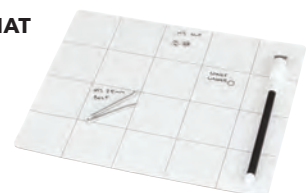
Tools not included.

	Cat.	Qty 1+	Qty 6+	Qty 20+
	LM1624	$24.90	$22.40	$19.90

MAGNETIC PROJECT WORK MAT

Holds small metal screws, nuts, and bolts so they don't roll off the desk as you work. No more hunting around for that small screw that fell on the floor as you work.

- Dimensions: 254(L) x 203(W)mm



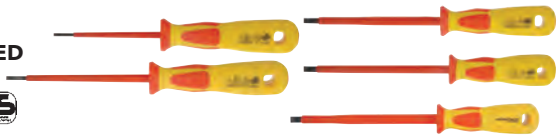
	Cat.	Qty 1+	Qty 6+	Qty 20+
	TH1867	$17.90	$15.90	$13.90

Electrical screwdrivers:

This range of trade quality insulated screwdrivers is one of the most comfortable screwdrivers we have ever used. The ergonomic handles have a soft rubber coating for a secure, comfortable grip that you can use for hours on end. All are TUV and GS approved and rated up to 1kV.

- A size for any application

SLOTTED



Width	length	Cat.	Qty 1+	Qty 3+	Qty 6+
2.5mm	75mm	TD2230	$6.80	$6.10	$5.45
3.0mm	100mm	TD2231	$7.40	$6.65	$5.90
5.5mm	125mm	TD2232	$8.60	$7.75	$6.90
6.5mm	150mm	TD2233	$9.90	$8.90	$7.90
8.0mm	175mm	TD2234	$12.90	$11.60	$10.30

PHILLIPS

size	length	Cat.	Qty 1+	Qty 3+	Qty 6+
0	60mm	TD2235	$7.40	$6.65	$5.90
1	80mm	TD2236	$8.50	$7.60	$6.80
2	100mm	TD2237	$9.90	$8.90	$7.90

7 PIECE SET

A quality set of 7 screwdrivers with storage box. GS & VDE tested & approved to 1000V. With red handles and insulation right to the tip.

- DIN EN 60900.

Flat:
1.2x6.5x150, 1.0x5.5x125, 0.8x4x100, 0.4x2.5x75

Phillips:
#2x100, #1x80, #0x75

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2022	$44.90	$40.40	$35.90

Test Screwdrivers

"SMART" TEST SCREWDRIVER

- Capacitor check
- Diode check
- Transistor check
- Globe / relay / fuse / speaker / resistor check
- Locating broken wire
- Picks up static radiation of TV or monitor
- Instantaneously checks AC power
- Earth disconnection check
- AC voltages
- DC voltage test up to 250VDC
- Continuity check
- Polarity check 1.5V to 36VDC
- Supplied with comprehensive instructions

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2055	$15.90	$14.30	$12.70

LOW VOLTAGE CIRCUIT TESTER 6, 12, 24 VOLTS

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground.

- Suitable for 6/12/24 volts for use on cars,trucks, boats, etc.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2049	$4.90	$4.10	$3.70

For next day delivery, or Click and Collect, see page 5

Tool Kits

30 PIECE TOOL KIT WITH CASE

Minor DIY repairs are a breeze with this 30 piece tool kit and every DIYer should have one of these in easy reach. The tools are held securely in a zip-up case

Contents:

- Side cutters
- Long nose pliers
- Snap-blade knife
- Tape measure
- Precision screwdriver with bits
- Driver handle with: PH1, PH2, PZ1, PZ2, 5, 6mm slotted, T10, T15, T20
- 5, 6, 7, 8, 9, 10mm sockets
- Folding Allen keys 1.5, 2, 3, 4, 5, 6mm
- Case measures: 210(L) x 160(W) x 48(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2166	$36.90	$33.20	$29.50

35 PIECE ELECTRONIC TOOL KIT WITH VINYL CASE

A multi-purpose precision screwdriver tool set with a durable storage case with zipper. The tool set consist of 30 bits, cutters, pliers and a flexible shaft adaptor for those tricky to reach screws. Ideal for electronic service tradesmen and hobbyists.

Kit includes:

- 30 pcs assorted bits:
  - -Slotted: SL1.0, SL1.5, SL2.0, SL2.5, SL3.0, SL3.5, SL4.0mm
  - -Philips: PH000, PH00, PH0, PH1
  - -Pozi: PZ0, PZ1
  - -Torx: T4, T5, T6, T7, T8, T9, T10, T15, T20
  - -Hex: H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H4.0mm
- Needle nose pliers, diagonal cutters, flexible shaft, stainless tweezers, easy grip screwdriver handle
- Durable zippered storage case
- Case dimensions: 180(L) x 125(W) x 30(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2117	$48.90	$44.00	$39.10

8 PIECE 1000V VDE SET

- VDE approved to 1000V
- Insulated right to the tip
- Includes low voltage circuit tester

Tools Include:

- 170mm Side Cutters
- 170mm Long Nose Pliers
- 140mm 250V Mains Tester
- #1 x 80mm Phillips Screwdriver (170mm Overall Length)
- #2 x 105mm Phillips Screwdriver (205mm Overall Length)
- 3.5mm x 105mm Slotted Screwdriver (195mm Overall Length)
- 5.0mm x 125mm Slotted Screwdriver (225mm Overall Length)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2031	$74.90	$67.40	$59.90

Fish Tape

WIRE DRAW FISH TAPE

NEW

A fish tape is a tool that's used to draw wire and cable through wall cavities or conduit. Instead of a clumsy method of using, say. a length of fencing wire and hours of frustration, this handy tool uses 15m of flat, rigid spring steel with a built-in cable eye on the end to making running cables easy. You can easily direct the rigid wire exactly where you need to, and when not in use the tape rolls back up into its own case for easy storage. No electrician, data cable, antenna, home theatre or security installer should be without one.

Electrical safety warning:
Conduits, wall, floor and roof cavities contain live electrical wiring. DO NOT use this device anywhere around live electrical wiring.
Ensure all electrical power is turned off and disconnected from the mains before use.

- Made with Flexible High-Strength Steel in Durable Plastic
- Rust and Corrosion Resistant
- No Kink Design
- Length: 15m

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH2350	$28.90	$25.90	$22.90

Smartphones & Game Console Tool Kits

LCD SCREEN OPENING TOOL

If you're trying to open modern smart devices such as a Tablet or Smartphone, the right tool is essential. This pair of suction-pliers provide pressure to pop-open the case, allowing you to get access to the internal electronics and screen. Suitable for screen removal on many smart devices.

- Dimensions: 160mm long

Smartphone not included.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2121	$10.90	$9.90	$8.90

TOOL SET REPAIR KIT FOR IPHONE®

The tools you need to safely open up your iPhone® or iPad® and put it back together again. Replace cracked screens, dead batteries, scratched back panels and more. Suits iPhone® 3G, 3GS, 4, 4s, 5.

Contents

- 3 x iPhone® mounting panels with screw hole marks for iPhone® 4, iPhone® 4s, iPhone® 5
- 1 x Scraping plastic film
- 1 x Special tool for capacitive screens
- 1 x 0.8 Pentalobe screwdriver (for iPhone® 4 iPhone® 4s, iPhone® 5)
- 1 x 1.2 Pentalobe screwdriver (for iPad®)
- 1 x 1.2 Philips screwdriver (for iPhone® 3, and parts of iPhone® 4)
- 2 x Guitar pick opening tool
- 2 x Plastic prying tools

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2115	$20.90	$18.80	$16.70

27 PIECE SMARTPHONE REPAIR KIT

A kit containing all the necessary tools you need to fix your Smartphone. This 27 piece Smartphone repair tool kit comes in a compact storage case with a hang tab to make sure that you don't misplace the kit after use. It is not limited to Smartphones either - it is designed to repair iMac®, Mac® air, iPhone®, Samsung®, HTC®, Nokia®, Sony® as well as many brands of mobile phone.

Kit includes:

- Aluminium alloy handle
- 18pcs for 4mm bits: PH000, PH00, PH0, PH1, SL1.5, SL2.0, SL2.5
  - -Torx: T4, T5, T6, T8, T10
  - -HEX1.5, HEX2.0
  - -Pentalobe 0.8, 1.2, 1.5
  - -Tri-Lobe #0
- Plastic prying tools x 2
- Extension bar
- Guitar pick' opening tool
- Suction vacuum opener
- SIM card ejector pin tool
- Tweezers x2
- Soldering scraper tool
- Nylon ESD-safe probe with pointed and blade ends
- Dimensions: 190(L) x 130(W) x 26(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2118	$36.90	$32.90	$28.90

GAMING CONSOLE TOOL KIT

Everything you need to get into your console and accessories. It includes tools for pretty much every console and handheld on the market today - WII®, X-Box®, Playstation® etc. Carry case included.

Contents:

- PH000, PH00, PH0, PH1
- Slotted 2, 3, 4mm
- T4, T5, T6, T8, T10, T15, T20
- TA2, TA2.3
- TRI00, TRI0, TRI1
- Nintendo® & X-Box® security bits
- X-Box® opening tool
- Stainless tweezers
- Ratchet handle and adaptor

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2109	$36.90	$33.20	$29.50

Crimping Tools - Quick Connectors

5 WAY CRIMPING TOOL - AUTO TYPE

This crimping tool will do the following:
- Cut wire
- Crimp insulated & non insulated terminals
- Strip wire with diameters 0.75, 1.0, 1.5, 2.5, 4.0 & 6.0mm
- Cut bolts with diameter M2.6, M3.0, M3.5, M4.0 & M5.0

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1828	$10.90	$9.50	$8.50

CRIMPING TOOL FOR NON-INSULATED LUGS

A quality tool at a budget price. Solid box joint and crimping dies, comfortable handles and spring-loading make this an easy crimper to use all day. It handles non-insulated lugs from 14-18 AWG and 22-26 AWG and also includes a built-in wire cutter.

	Cat.	Qty 1+	Qty 3+	Qty 6+
185mm long	TH1834	$18.90	$16.70	$14.70

HEAVY DUTY RATCHET CRIMP TOOL FOR INSULATED TERMINALS

Manufactured from quality carbon steel and fitted with hardened and tempered jaws. Crimping pressure is precisely adjustable and a ratchet release lever is fitted to enhance safety. Has easy identification for crimping Red, Blue, and Yellow Terminals. Suitable for crimping insulated terminals from 0.5mm to 6.0mm in size.

	Cat.	Qty 1+	Qty 3+	Qty 6+
220mm	TH1829	$47.90	$42.90	$38.40

AUTOMOTIVE CRIMP TOOL WITH CONNECTORS

Unlike other automotive crimp pliers, this excellent tool comes with 80 of the most popular automotive connectors and NOT a bunch of junk you will never use. The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts.
Every car enthusiast should have one of these.

Included connectors:
- 8 each of male & female blue bullets
- 8 each of male & female red bullets
- 8 each of male & female blue spades
- 8 each of male & female red spades
- 8 x red eye connectors
- 8 x blue butt joiners

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1848	$18.90	$16.90	$14.90

RATCHET CRIMPING TOOL FOR NON-INSULATED LUGS

Very high quality with comfortable grip and ratchet mechanism to relieve strain on your hands. Ideal for anyone doing frequent or high volume crimping. The ratchet mechanism holds the crimper closed until complete, with a manual release when needed. The extra-long handle provides exceptional leverage, while the grips provide comfort for your hands. Suits (16AWG to 6AWG) 1.25 to 16mm non-insulated terminals. Ideal for crimping Anderson® plugs up to 50A.
- Dimensions: 280(H) x 55(W) x 18(D)mm (Closed)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1847	$39.90	$35.90	$31.90

Crimping Tools - Coax

COMPRESSION CRIMPING TOOL - UNIVERSAL

A precision crimp tool ensuring correct crimping pressure is applied for reliable, trouble-free compression of BNC, RCA, Min-F and F-type coaxial connectors. Adjustable compression depth that provides desired crimping length.
- Works with RG59 and RG6 coaxial cables

Note: This tool is not suitable for our PP0708 Foxtel Approved F59 Plug.

	Cat.	Qty 1+	Qty 3+	Qty 6+
146mm long	TH1800	$28.90	$25.90	$22.90

COMPRESSION CRIMPING TOOL FOR F-TYPE PLUGS

A compact compression tool designed for our Foxtel approved F-type plug (PP0708). A channel accurately positions the plug, and a spring-loaded clamp holds the cable in position. These features and leverage action of the handle ensure easy F-type compression crimps.

	Cat.	Qty 1+	Qty 3+	Qty 6+
143mm long	TH1803	$39.90	$35.90	$31.90

COMPRESSION CRIMP TOOL FOR RCA / BNC / PAL / F-TYPE CONNECTORS

This crimp tool provides interchangeable dies to crimp RCA, BNC, PAL and F-Type connectors with ease. It's a durable tool that will provide a quality compression connection every time. Metal construction with comfortable grip.
- Dimensions: 152(D) x 19(W) x 53(H)mm (Closed)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1807	$28.90	$25.90	$22.90

HEAVY DUTY COAX CRIMPING TOOL

This tool is specifically designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto coax cable for TV and communications applications. It also has adjustable crimp force and 3 hex dies: 2.54mm, 9.12mm & 10.3mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1832	$36.90	$33.20	$29.50

HEX RATCHET CRIMPING TOOL

Heavy duty ratchet tool designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto RG6, RG58 or RG59 coax cable. It features adjustable crimping force and ratchet mechanism for complete repeatability. Four hex crimping dies: 1.72mm, 5.49mm, 8.23mm and 9.14mm.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1833	$47.90	$42.90	$38.40

RATCHET CRIMPING TOOL FOR F-TYPE CONNECTORS

A strong, heavy duty tool for crimping F-Type CATV connectors onto RG6 or RG59 coax cable. Ideal for cable TV or RF distributions system installers. The tool features a secure ratchet mechanism for accurate and reliable crimps.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1831	$47.90	$42.90	$38.40

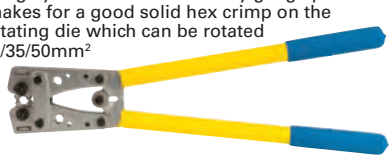
RATCHET CRIMPING TOOL FOR BNC/TNC CONNECTORS

A heavy duty tool for crimping BNC/TNC 0 connectors onto RG58/59/62 coax cable. The tool features a secure ratchet mechanism for accurate and reliable crimps.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1846	$47.90	$42.90	$38.40

HEAVY DUTY TERMINAL CRIMPER

Commonly used for crimping lug/eye terminals onto heavy gauge power cables. The lever arm action makes for a good solid hex crimp on the terminal. Features a built in rotating die which can be rotated to suit terminals for 6/10/16/25/35/50mm² cable (10AWG-1/0AWG)
- Suits our PT4934 to PT4939 range of eye terminals
- 450mm long



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1849	$62.90	$56.50	$49.90

For next day delivery, or Click and Collect, see page 5

HEAVY DUTY CRIMP TOOL WITH QUICK INTERCHANGEABLE DIES

This heavy duty, ergonomic crimper allows you to quickly interchangeable the dies by hand, without the need for a screwdriver! Crimping is made easy with its ratchet mechanism designed for maximum power or quick release. Its ratchet release function allows for easy adjustment prior to completing the crimp, in case of incorrectly placed terminal. This crimper uses interchangeable dies (available separately) that can be quickly and easily changed. Buy only the ones you require for each job! Dies available for telephone and network plugs, insulated terminals, BNC/TNC connectors to suit RG58/RG59/RG62 coax, and even F-type CATV connectors to suit RG59/RG6 coax. An invaluable tool for the workshop or technician's tool-kit.

DIES TO SUIT

TH2001

TH2002

TH2003

TH2004

TH2005

TH2006

TH2007

TH2008

TH2009

TH2010

TH2011

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Heavy Duty Crimp Tool	TH2000	$45.90	$40.90	$35.90
6P6C RJ11/12	TH2001	$25.90	$22.90	$20.90
8P8C RJ45	TH2002	$25.90	$22.90	$20.90
Insulated Terminals	TH2003	$25.90	$22.90	$20.90
BNC.TNC RG58/59/62	TH2004	$25.90	$22.90	$20.90
F Connectors CATV RG6/59	TH2005	$25.90	$22.90	$20.90
Non-Insulated Terminals 26-18AWG	TH2006	$25.90	$22.90	$20.90
Non-Insulated Terminals 20-10AWG	TH2007	$25.90	$22.90	$20.90
SMA/Fibre Optic 1.09-6.48mm	TH2008	$25.90	$22.90	$20.90
SMA/Fibre Optic 1.07-4.52mm	TH2009	$25.90	$22.90	$20.90
PV Connector	TH2010	$36.90	$33.20	$29.50
Deutsch Die AWG 16/18/20	TH2011	$28.90	$25.90	$22.90

Crimping Tools - Modular

6P/8P MODULAR CRIMP TOOL

This tool will crimp the following plugs: 6P2C, 6P4C - RJ12, 6P6C - RJ12, 8P - RJ45.

- It also cuts and strips the cable

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1935	$24.90	$22.40	$19.90

4P/6P/8P/10P MODULAR CRIMP TOOL

This great tool will cut, strip and crimp flat telephone cable, or Cat5e type cable also. Constructed from high quality carbon steel, it features interchangeable dies and ergonomic design. It also has a brace to lock them closed.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1936	$56.90	$50.90	$44.90

Cat5 Tools

CAT5 PUNCH-DOWN TOOL / STRIPPER

LOW-COST

This versatile little tool will strip wire up to 5 to 6.2mm diameter, and doubles as a punch-down tool for 110/88-type terminals, with blade. Made from poly-resin plastic, with steel cutters this lightweight tool could easily fit in the pocket or tool kit.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1738	$10.90	$9.50	$8.50

CAT5 PUNCH-DOWN TOOL - ADJUSTABLE

It has a turnable body, adjustable impact pressure and a storage compartment within the handle for holding a spare blade. Frame made of polyacetal resin with fibre glass orange handle. Supplied with 88 blade. Spare blades see TH1743 below.

SPECIFICATIONS	TH1740
Impact pressure	Low: 10 +/- 2kg (standard wire)
High	15 +/- 2kg (larger wire)
Length of tool	152mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1740	$27.90	$24.70	$21.90

BLADES FOR CAT5 PUNCH TOOLS

Suits the punch tool - TH1740. Made from hardened SNCM-21, these blades are both changeable and reversible, and can be changed by hand, no screwdriver necessary. Blade retaining pressure within 4-6 kg. One end of each blade has a cutter for that extra-neat termination, the other end is plain for those "linked" blocks.

	Cat.	Qty 1+	Qty 3+	Qty 6+
110 Krone	TH1743	$21.90	$19.70	$17.30

F Connector Tools

F CONNECTOR SEATING TOOL

This 3 way tool assists in the connection of F type connectors. Includes flaring tool for RG6 and RG59 cable and pre-threading tool. Measures: 60mm diameter

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits RG6/RG59	TH1883	$15.90	$14.30	$12.70

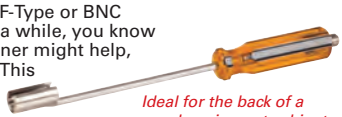
F CONNECTOR SPANNER

Handy tool for tightening and loosening F-type connectors.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1811	$2.00	$1.80	$1.60

F-TYPE / BNC INSERTION & EXTRACTION TOOL

If you've ever tried to unscrew an F-Type or BNC connector that's been in-place for a while, you know it can be really tough. Sure a spanner might help, but access is usually an issue too. This tool is specifically designed to allow you to insert them with firm torque for a quality connection, and a solid grip to unscrew the most stubborn plug too. Suits F-Type and BNC connectors.



Ideal for the back of a cramped equipment cabinet.

SPECIFICATIONS	TD2000
Thread / Socket	3/8-32 / 7/16 Hex
Dimensions	255(L) x 25(Dia.)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2000	$16.90	$14.90	$13.40

Cable Strippers & Cutters

BUDGET COAX CABLE STRIPPER

Strips insulation from any coax cable and ideal if you only need to strip coax occasionally. Simply insert the cable, twist and turn, then use the other end of the tool to remove the inner insulation.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1815	$5.90	$5.20	$4.70

POCKET WIRE STRIPPER

Strips anything from 2G to RG6 coax. Easy to use and small enough to take anywhere on the job.

	Cat.	Qty 1+	Qty 3+	Qty 6+
120mm long	TH1817	$17.90	$15.90	$14.30

WIRE STRIPPER

Great way to strip all sorts of cable without damaging the conductors. Automatically adjusts to insulation diameter.

- One hand operation
- Spring return

Note: Colour may vary to one shown.

Features a Finger Guard

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1824	$21.90	$19.70	$17.30

ROTARY COAX STRIPPER

This handy stripper will strip the outside jacket and inner conductor in one operation.

- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1820	$24.90	$22.40	$19.90

STAINLESS STEEL WIRE STRIPPER / CUTTER / PLIERS

A high quality precision wire stripper and cutter that will strip wire sizes from 0.6mm to 2.6mm. It is spring-loaded with locking jaws, and has soft rubber handles for added comfort.

- Strips stranded wire from 12-24 AWG and solid wire from 10-22 AWG
- Includes wire cutter, pliers and loop hole to bend hooks in wires
- Will also cut steel wires up to 3.0mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
164mm long	TH1841	$21.90	$19.70	$17.30

HEAVY DUTY WIRE STRIPPER / CUTTER / CRIMPER WITH WIRE GUIDE

Designed for easy wire stripping. The alloy steel can strip all types of cable from AWG 10-24 gauge (0.13 -6.0mm), and the wire guide ensures the correct length is stripped time and time again. It incorporates a precision cutting blade for easy wire cutting. It also features quality crimping jaws. Capable of removing outer insulation from main T & E cable

- Insulated terminals (1.5 - 6mm)
- Non-insulated terminals (1.5 - 6mm)
- For auto ignition terminals (7-8mm)
- This is the best all round wire tool we've seen for a long time
- Spring return

	Cat.	Qty 1+	Qty 3+	Qty 6+
204mm long	TH1827	$36.90	$33.20	$29.50

Shears & Nibbling Tool

180MM (7") HIGH QUALITY STAINLESS STEEL ELECTRICAL SHEARS

These precision spring loaded stainless steel electrical shears will cut soft wire up to 22mm² and make light work of cable ties, heatshrink, light hook-up wire and cable braid etc. Thumb operated lock to keep them closed when not in use.

- Ideal for cutting ribbon cable

will cut "presspalm" or elephant hide heavy insulation board

	Cat.	Qty 1+	Qty 3+	Qty 6+
180mm long	TH1757	$11.90	$10.70	$9.50

140MM (5.5") HIGH QUALITY ELECTRICAL SHEARS

These shears offer impressive cutting ability with finely honed and serrated blades. Great for cutting insulation, heatshrink, spaghetti and light duty hook-up wire.

- Shears feature insulated handles

will cut "presspalm" or elephant hide heavy insulation board

	Cat.	Qty 1+	Qty 3+	Qty 6+
140mm long	TH1758	$8.90	$7.90	$6.90

165MM (6.5") STAINLESS STEEL CABLE SHEARS

This set of cutters has a cutting capability of up to 10mm copper cable. It is constructed from stainless steel and has a hardened long-life cutting edge. For safety and ease of storage, it can be locked in the closed position.

- Stainless Steel & lightweight
- Lockable

1 YEAR WARRANTY

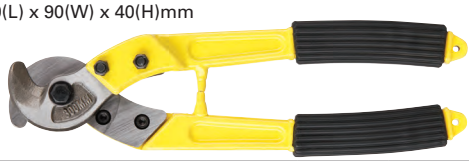
	Cat.	Qty 1+	Qty 3+	Qty 6+
165mm long	TH1898	$24.90	$22.40	$19.90

300MM (12") COPPER CABLE SHEARS

These super heavy duty cutters feature a precision cutting head forged from carbon steel attached to drop forged steel handles for extra leverage. Designed to cut copper cable up to 35mm² you can slice through just about any cable up to 2 gauge. The handles are coated to prevent corrosion and have rubber grips for operator comfort.

- Dimensions: 300(L) x 90(W) x 40(H)mm

1 YEAR WARRANTY



	Cat.	Qty 1+	Qty 3+	Qty 6+
300mm long	TH1900	$28.90	$25.90	$22.90

MULTI FUNCTION CUTTER/STRIPPER TOOL

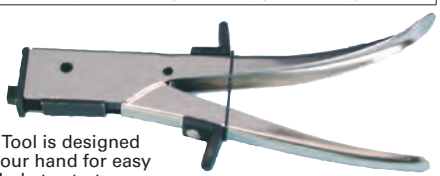
This ingenious 2-in-1 tool is the ultimate in space economy for your toolbox. On the one hand, it is a 6 position wire stripper suitable for 10 AWG to 20AWG insulated wire with a micro-grip jaw at the end. Then, just flip the handles around to turn it into a side cutter and crimper!

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1843	$29.90	$26.90	$23.90

NIBBLING TOOL

Will cut any shape out of aluminium, plastic, copper and other unhardened metals up to 18 gauge. Tool is designed to fit into the palm of your hand for easy use, simply drill a 1/4" hole to start.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1768	$18.90	$16.70	$14.70

For next day delivery, or Click and Collect, see page 5

Rotary Tools & Engravers

MICRO ENGRAVER

Engrave your valuables for security or insurance. The tiny diamond coated tip spins at 10,000 RPM so you can personalise tools, sporting gear, toys, security ID on valuables etc. Engraves glass, ceramics, metals and plastics. Batteries and case included.

- Tip is replaceable
- Dimensions: 160(L) x 15(Dia)mm
- Replacement tip sold separately Cat TD2469

	Cat.	Qty 1+	Qty 3+	Qty 6+
Micro Engraver	TD2468	$31.90	$28.70	$25.50
Spare Tip	TD2469	$8.90	$7.90	$6.70

192 PIECE ROTARY TOOL BIT SET

This 192 piece rotary accessory kit comes with a wide variety of components for sanding, engraving, cutting, grinding, and polishing. All parts store neatly in the compact carrying case. This kit is designed to be used with rotary kits that use 3.2mm and 4.8mm diameter shanks.

Includes:

1 x Wrench
16 x Sanding Bands
1 x Rubber Emery Wheel
1 x Felt Wheels
4 x Felt Wheels
12 x Grinding Wheels
2 x Cut Off Wheels Fiberglass
1 x Flap Wheel
1 x Felt Wheel Pointed
3 x Collets
5 x Grinding Wheels With shank
2 x Sanding Shanks
2 x Mandrels For Wheel
1 x Mandrels For Felt Wheels
5 x Diamond Cutters
1 x HSS Cutter
6 x Brush
1 x Polishing Compound
66 x Cut Off Wheels
60 x Sand Papers
1 x Dressing Stone

	Cat.	Qty 1+
	TD2455	$16.90

110 PIECE 12V ROTARY TOOL SET

Drill, saw, sand, polish, carve or grind in your workshop or out on the road. 110+ bits and attachments cover every possible task you'll ever need. The rotary tool is rated for 12V at 12,000 RPM. Ideal for hobby or professional use.

Rotary tool: 12VDC, 16W, 12,000 RPM
Attachments:

- Sanding belts 3 x 6mm
- 5 x Sanding Bands: 1/4" x 1/2"
- 6 x Sanding bands: 1/2" x 1/2"
- 4 x Collets: 1.6mm-2.3mm-3.2x2
- 1 x Dressing Stone 1"x 3/8"
- 1 x Felt Wheel Pointed: 3/8" x 3/4"
- 2 x Rubber Emery Wheel
- 4 x Felt Wheels: 1/2" x 1/4"
- 20 x Sand papers
- 2 x Felt Wheels: 1'x1/4"
- 1 x Cloth wheel 1"x 1/8"
- 2 x sanding shanks: 1/4"x1/2", 1/2"x1/2"
- 4 x HSS Twist drills: 1.6mm x 2, 2.3mm x 2
- 3 x Mandrels For Wheel
- 5 x Diamond cutters
- 2 x HSS cutter
- 9 x Grinding wheels with Shank
- 3 x Brush
- 30 x cut off wheels
- Heavy duty: 0.8mm
- 1 x Polishing compound
- 1 x mini engraver

See our website for a full breakdown of our Rotary Tool Kits.

	Cat.	Qty 1+	Qty 3+	Qty 6+
12V 110 Piece Rotary Tool Set	TD2451	$43.90	$39.50	$35.00

210 PIECE ROTARY TOOL KIT WITH FLEXIBLE SHAFT

Flexible shafts are particularly useful for porting heads in engines, but have a multitude of other applications where you need to get into a tight space or get more control of the bit. The kit consists of a powerful mains powered 32,000 RPM rotary tool that you can use with numerous attachments in the usual way, plus a 1m long flexible shaft. The flexible shaft attaches in seconds to give extra versatility. Suitable for modelmaking, automotive, workshop, art, jewellery or sculpture.

SPECIFICATIONS	TD2459
Speed	10,000 - 32,000 RPM
Power	135 Watts@240VAC
Dimensions	210(L) x 52(Dia)mm
Shaft Length	1000mm

Attachments:

- Sanding arbours
- P80 sanding belts
- Sanding discs
- Collets: 2 x 3/32", 2 x 1/8"
- Drill bits: 2 x 1/16", 2 x 3/32"
- Grinding stones: 20 x 4mm wheel, 10 x 4mm wheel, 15 x 10mm cylinder, 12 x 10mm cylinder, 7 x 4mm cylinder, 20 x 10mm bullet, 11 x 8mm tapered bullet,
- Tungsten carbide burrs: 3mm straight, ball profiles
- Diamond coated burrs: 4mm ball, 2mm fine cone taper, 3mm pinecone, 4mm cone
- Polishing wheels: 12, 25mm
- Steel, fibre wire brushes
- 30mm cut-off wheels
- 20 x 4mm grinding wheels
- Paint-removing wheel
- 3/8" collet spanner, arbours, shafts, polishing compound

1 YEAR WARRANTY

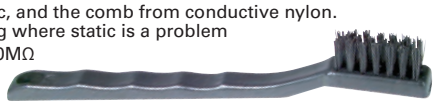
	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC 210 Rotary Tool Set	TD2459	$69.90	$62.90	$55.90

Anti-Static Products

CONDUCTIVE BRUSH

This brush looks very much like a toothbrush. The handle is made from conductive plastic, and the comb from conductive nylon. Use it to clean anything where static is a problem

- Resistivity: - 10KΩ - 10MΩ
- Length 178mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1775	$11.90	$10.70	$9.50

ANTI-STATIC WRIST STRAP

Static charges can destroy ICs instantly. Consists of adjustable hook and loop wrist strap, coiled lead and banana plug/ alligator clip. Expanded lead length about 1.8m.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1780	$16.90	$14.90	$13.30

ANTI-STATIC WRIST STRAP

Similar to the unit above, this strap has an extra long coiled lead of 3m/10ft extender. This makes it ideal for moving about your workbench without having to unclip yourself to do so. An elasticised wrist strap is also included, along with banana plug/alligator clip.

- Colour may vary

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1781	$21.90	$19.30	$16.90

ANTI-STATIC FIELD SERVICE MAT / BAG

The mat folds out to a work area of approximately 600 x 600mm. At one end there are 2 pouches, and a ground lead and wrist strap are included. A very useful tool.

- Pouch size approx: 200 x 300mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1776	$45.90	$40.90	$35.90

Glue Guns

MINI GLUE GUN - 30W

A glue gun is a handy tool to have around the house. It's fast, easy and simple to use with trigger controlled glue feed. Suitable for toys and models, decorations, furniture, woodwork, cardboard, etc.

- Mains powered
- Requires 7mm diameter glue sticks (2 supplied)

Note: For intermittent use only.
Not for production use

GLUE STICKS FOR MINI GUN

To suit the mini glue gun.

- Dimensions: 7mm dia. x 100mm long
- Suits TH1997 mini gun

	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Glue Gun - 30W	TH1997	$17.90	$16.10	$14.30
Glue Sticks Pkt 6 for Mini Gun	TH1991	$4.90	$4.10	$3.70
Glue Sticks Pkt 50 for Mini Gun	TH1994	$11.90	$10.70	$9.50

LARGE GLUE GUN - 100W

GLUE STICKS FOR LARGE GUN

Great for quick and easy low stress repairs to timber, cardboard, paper and many household materials. It is fast, easy and simple to use with trigger controlled glue feed.

- Mains powered
- Requires 12mm diameter glue sticks (2 supplied)
- Note: For intermittent use only. Not for production use
- Dimensions: 12mm diameter x 100mm long
- Suits TH1999 gun

	Cat.	Qty 1+	Qty 3+	Qty 6+
Large Glue Gun - 100W	TH1999	$24.90	$22.40	$19.90
Glue Sticks Pkt 6	TH1995	$5.90	$5.20	$4.70
Glue Sticks Pkt 45 approx	TH1996	$21.90	$19.30	$16.90

Tool Belt

PROFESSIONAL LEATHER TOOL UTILITY BELT

Strap this to your waist to keep your most used tools on you at all times. The belt size is fully adjustable and features a number of pockets and 2 leather loops suitable for carrying a hammer, measuring tape and more.

- 2 large main pockets
- 2 front stitched pockets
- 6 small pockets
- 2 leather hammer loops
- Adjustable web belt with buckle

Note: Tools and accessories not included"

	Cat.	Qty 1+
	HB6373	$5.90

Specialty Screwdrivers

KEYRING SCREWDRIVER SET

This tiny key-size screwdriver set consists of a 5mm slotted driver, #2 Phillips driver and is small enough to be carried on your key ring, yet strong enough to loosen all but the toughest general purpose screws without damage. The drivers are made from chrome-vanadium steel and have a forged handle section that allows plenty of pressure to be applied to the job. Length 55mm.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2012	$4.30	$3.85	$3.45

Pocket Tool

MULTIFUNCTION POCKET TOOL

This handy little tool will fit in your wallet! It is the size of a credit card, made from stainless steel and features a can opener, screwdriver, ruler, bottle opener, 4 position spanners, saw blade, directional auxiliary indication and a lanyard hole. Is the ideal companion for camping, hiking, backpacking or just to keep handy for those MacGyver moments. Supplied with pouch.

- 68(L) x 45(W) x 2(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH1838	$2.00	$1.80	$1.60

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Drivers & Bit Sets

BLANK HEX DRIVER FOR INDIVIDUAL SCREW BITS

Use this driver with the bits supplied in our TD2035 bit sets on the right. It will accept any hex bit in our range and features non-slip rubber handle with magnetic chrome vanadium 50mm long shaft.

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
160mm	TD2032	$8.90	$7.90	$6.90

THE POWER DRIVER BIT SET - 32 PIECES

The set consists of 32, yes 32 of the driver bits that you don't normally see. You don't get any slotted, Phillips or Pozidriv™ bits.

- 4 x Tri - wing, size 1, 2, 3, 4
- 9 x Torx (tamperproof), size T8, T10, T15, T20, T25, T27, T30 and T35
- 4 x Pin drive (snake), size 4, 6, 8 and 10
- 6 x In - Hex (allen), *metric, size 2, 2.5, 3, 4, 5 & 6
- 6 x In - Hex (allen), *imperial size 5/64", 3/32", 7/64", 1/8", 9/64" and 5/32"
- 3 x Torque Set, size 6, 8 and 10

With this you get a hex driver with magnetic retainer, all in a nifty plasticy - rubber holder that is smaller than a deck of cards! (67 x 45 x 30mm).

*Tamperproof Torx works as normal Torx as well.
*Tamperproof In - Hex drive type

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2035	$18.90	$16.90	$14.90

100 PIECE DRIVER BIT SET

High Impact S2 Steel

The ultimate driver bit set includes:

- 1 x magnetic bit holder
- 1 x square to hex socket driver 50mm
- 1 x square to hex socket driver 25mm
- 1 x square to hex bit adaptor

Driver bits:

- Phillips # 0, 1, 2 (x5) & 3
- Pozidriv™ # 0, 1, 2 (x5) & 3
- Square drive # 0, 1, 2 & 3
- Slotted 3, 4, 4.5, 5, 5.5, 6, 6.5, 7 & 8mm
- Pin drive (snake) # 4, 6, 8 &10
- Torque Set # 6, 8 & 10
- Torx T8, T10, T15, T20, T25, T27, T30, T40 & T45
- Tamper proof Torx (Metric) T8, T10, T15, T20, T25, T27 & T30
- Hex (Allen) Metric 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 & 8.0mm
- Tri-Wing # 1, 2, 3 &4
- Clutch drive # 1, 2 &3
- Hex (Allen) Imperial 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 & 1/4"
- Spline drive M5, M6 & M8
- Tamper Proof Allen (Metric) 2.0, 2.5, 3, 4, 5 & 6mm
- Tamper Proof Allen (Imperial) 5/32, 9/64, 1/8, 7/64, 3/32 & 5/64"
- Wing nut driver
- All in a snap lock case with clear markings to show where each bit rests

Note that commonly used driver bits are supplied in greater numbers.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2038	$29.90	$26.90	$23.90

For next day delivery, or Click and Collect, see page 5

Precision Driver Sets

5 PIECE TORX SET

Easy to use colour coded Torx screwdrivers in a plastic case. Each screwdriver has a swivel head for easy use. Blade length is 20mm and torx sizes are T6, T7, T8, T9 & T10.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2070	$15.90	$13.70	$12.30

6 PIECE PRECISION TAMPERPROOF TORX SET

A quality set of chrome vanadium drivers consisting of T7, T8, T9, T10, T15 and T20. All drivers are 145mm length & presented in a felt-lined plastic case.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2021	$24.90	$22.40	$19.90

12 PIECE KEYCASE MINI DRIVER SET

1 YEAR WARRANTY

12 mini bits & driver in a key-sized storage case.

- Flat: 1.5, 2, 2,5mm
- Phillips: 0, 00, 000
- Torx: T5, T6, T7, T10
- TN8, Hex 2.5mm
- Case size: 95(H) x 60(W)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2105	$23.90	$21.50	$19.00

32 PIECE PRECISION DRIVER SET

High quality driver set with all those really small bits. Tactile handle with hardened hex shaft from 140 to 210mm. Ideal for jewellery, model making or electronics.
Storage case included.

- Slotted: 1, 1.5, 2, 2,5, 3, 3.5, 4mm
- Phillips: 000, 00, 0, 1
- Pozidriv: 0,1
- Torx: T4, T5, T6, T7, T8 T9, T10, T15, T20
- Hex: 0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4mm
- Case: 157(L) x 100(W) x 27(D)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2106	$23.90	$21.50	$19.00

15 PIECE MICRO DRIVER SET

This handy set comes with all those microscopic fasteners we come across in modern electronics. The ergonomic handles are colour coded and they come in a sturdy storage case.

- Slotted: 1mm, 1.4mm, 1.8mm, 2.4mm
- Phillips: #000, #00, #0, #1
- Torx: T5, T6, T7, T8
- Hex: 1.5mm, 2mm, 2.5mm
- Drivers: 105mm long
- Case size: 192(L) x 130(W) x 26(H)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2069	$29.90	$26.90	$23.90

22 PIECE LONG BIT SCREWDRIVER SET

Tackle a wide range of fastening scenarios using our compact screwdriver set comprising a selection of popular slotted, Phillips, Star and TRI bits, packed away neatly inside a handy storage case.

- Slotted: SL1.5, SL1.7, SL2.0, SL3.0 and SL4.0.
- Phillips: PH000, PH00, PH0, PH1 and PH2
- Star: T5, T6, T7H, T8H, T9H, T10H, T15H and T20H
- TRI: 2.5, 3.0
- Pentagonal: 1.6 / Pin drive (snake): SP2

1 YEAR WARRANTY

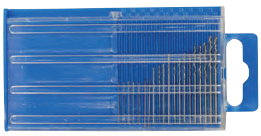
Cat.	Qty 1+	Qty 3+	Qty 6+
TD2114	$43.90	$39.50	$35.00

Drills & Drill Sets

20 PIECE MICRO DRILL SET 0.3 - 1.6MM

20 micro drills in an indexing storage case, ideal for drilling wood, composites, plastic or soft metals. Indexed case enables removal of the bit you want without the risk of spilling them all over the place.

- Sizes: 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0, 1.2, 1.3, 1.4, 1.6, 1.6mm
- Case size: 130(L) x 70(H) x 8(D)mm



Cat.	Qty 1+	Qty 3+	Qty 6+
TD2406	$15.90	$13.70	$12.30

31 PIECE MINI TAP & DIE SET

This 31 piece set is for the ultra small screws found in electronics. The kit consists of 9 metric screw cutting dies: 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2 & 2.5mm types in high speed steel and 18 equivalent taps in the same sizes above but with a taper and a plug version of the tap. There are 2 die liners to accommodate the smaller dies in the stock supplied. You will love this rare product. Supplied in a see-through plastic case which securely holds all parts.

- Dimensions: 83(W) x 153(L) x 12(D)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2443	$94.90	$85.50	$76.90

PIN VICE

A handy addition to any tool case. All metal construction with two internal collars. The head rotates freely making it ideal for drilling delicate PCBs or plastic cases.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1772	$17.90	$16.10	$14.30

SPIRAL DRIVE DRILL / DRIVER

The unit consists of a collet-type chuck and handle with a spiral shaft. Pushing the handle towards the job causes the collet to rotate. This would enable a drill (or screwdriver bit for that matter) to very gently and slowly rotate. It is ideal for very fine work and does need some practice to perfect your technique.

- Includes 2 pin vice collets: 0.3-1.0mm & 1.8-2.6mm
- Also 3 small drill bits in tubular case
- Dimensions: 180(L) overall (uncompressed) x 15(Dia.)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2089	$21.90	$19.70	$17.50

4 PIECE COUNTERSINK SET

The easy way to deburr or countersink. Simply drill hole, insert tool with appropriate bit, and turn for a countersunk angle of 90°. Bits include 12, 16 and 19mm - all hardened carbon steel.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2027	$16.90	$14.90	$13.30

ENGINEER SCALE RULER WITH USEFUL INFORMATION 25CM

NEW

A multifunction ruler for the electronics designer that includes several relevant charts and diagrams like angle gauges, IC pin spacing tables and chip resistor/capacitor package sizes. Gold plated printing on genuine circuit board material will ensure a long life. It also functions as a regular ruler! Angle Gauge, IC Spacing Tables, SMD Resistor/Capacitor Sizes, and Drill Diameter Reference

- R-4 Gold Plated

Cat.	Qty 1+	Qty 3+	Qty 6+
TH2520	$6.90	$6.20	$5.50

Drills & Drill Sets

42 PIECE CORDLESS SCREWDRIVER SET

This small yet powerful electric screwdriver is perfect for small electronics work. Includes spare common bit sizes and a convenient carry case.

NEW

SPECIFICATIONS	TD2500
No Load Run Time	42 minutes
Voltage	3.6V
Charge Time	3 hours (from flat)
Included Bit Sizes	Phillips: PH2, PH2, PH2, PH3, PH0, PH0, PH1, PH1 Flat: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 Torx: T8, T10, T15, T20, T25, T27, T30, T40, T45 Pozi: PZ0, PZ0, PZ1, PZ1, PZ2, PZ2, PZ3 Hex: H1.5, H2, H2.5, H3, H4, H5, H5.5, H6, H8

Cat.	Qty 1+
TD2500	$33.90

UNIVERSAL DRILL PRESS STAND

Convert your standard power drill or rotary tool into a drill press with this adjustable stand. Substantially cheaper than purchasing a full drill press, the stand still has all the necessary features expected in a full size press. It includes separate adjustments for limiting press depth and drill height so you can change drill position with minimal risk of over-drilling into the stand. The drill collar can be adjusted to suit a variety of tools. Heavy duty cast metal base and frame provides excellent stability.

- Allen key supplied for tightening drill collar
- Drilling depth: Up to 60mm
- Maximum collar diameter: 43mm
- Minimum collar diameter with insert: 35mm
- Dimensions: 497(H) x 350(W) x 160(D)mm

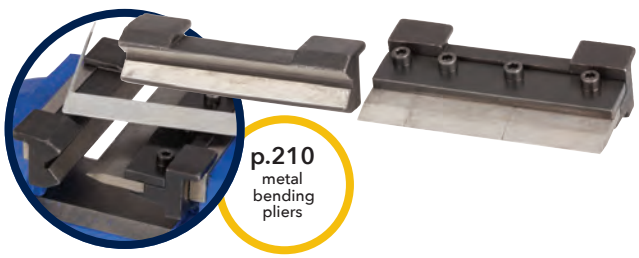
Note: Drill not included

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2463	$48.90	$44.00	$39.10

SHEET METAL BENDER - PAN BRAKE STYLE (VICE BREAK)

This unit sits in the jaws of your bench vice (100mm+ recommended). It retains itself in the vice with strong recessed magnets. One half consists of the familiar blade that bends the sheet metal. The other half in the 90 degree recess that the blade pushes into. By carefully positioning the sheet, you can perform a perfect 90 degree bend as good as a workshop! The blade is segmented, just like a workshop pan brake, so that you can make partial bends. With a little practice, you will be able to fabricate brackets, small boxes & other metal assemblies like a pro. Warning: This unit is not particularly cheap. It is, however, very well made. It is cast steel with tool steel pressing components. You need it to be sturdy, otherwise it would break or flex. It will, literally, last a lifetime. Will fold sheet up to 125 wide, however there are 3 x press segments 2 x 50mm, 1x25mm and these are independently removable by Allen head set screws. Depending on the width of the material you could easily bend steel strips up to 4mm thick and 25mm wide. Aluminium should not be a problem up to 4mm thick & 100mm wide, depending on your vice.

- Dimensions: 125(L) x 30(W)mm both halves



p.210 metal bending pliers

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1763	$99.90	$89.90	$79.90

Bench Vices & Accessories

MINI BENCH VICE

This sturdy lightweight vice will clamp to surfaces up to 1" thick and hold material up to 2" thick. This handy tool is ideal for hobby work or as a light duty workshop bench vice. Made from strong, lightweight aluminium that won't rust or corrode, the vice will be a useful addition to anyone who needs a third hand!

- Vice jaws are 63.5mm wide and will open to more than 50mm

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1764	$17.90	$15.90	$14.30

270° ROTATION CLAMP VICE

Rotate the head through 270° to make your work easier. The base will clamp to any bench or table up to 55mm thick and the 40mm jaws will take a job up to 58mm in size. Once in position, the head is easily fixed in position with a quick release lever.

- Base: 115(W) x 94(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1769	$39.90	$35.90	$31.90

VACUUM BENCH VICE - 75MM JAW

This quality vacuum vice is made from hard-wearing diecast aluminium. The vice consists of three-pieces; a vacuum base, ball joint clamp and a 75mm opening jaw with removable soft rubber jaw covers. The 'V' grooved jaws are ideal for holding cylindrical and irregular shapes, making it well suited to small bench jobs such as model building, jewellery making and general PCB/chassis work. The multi-positional ball swivel allows the jaws' working position to be varied through a full 360° axis.

- Stands approximately 160mm tall

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1766	$48.90	$44.00	$39.10

Workshop Tools

SOLDERING HEATSINK / COMPONENT HOLDER

This quality small tool is ideal as a heatsink when soldering to remove some of the heat from the semiconductor/component while soldering. It can also be used to hold small parts while soldering to avoid burnt fingers. Supplied with insulated handles, and length is 65mm.

Cat.	Qty 1+	Qty 3+	Qty 6+
TD2122	$9.90	$8.90	$7.90

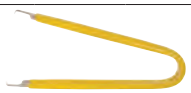
PLCC EXTRACTOR

There's really only one way to remove a PLCC chip safely - and this is it. Basically a spring assisted clip carrier extractor, specifically designed to see safe and hassle free removal of PLCC's from sockets.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1816	$16.90	$15.20	$13.50

IC EXTRACTOR 8 - 40 PINS

Deceptively simple looking device. One piece metal construction. 8 - 40 pins.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1818	$4.60	$4.15	$3.70

BUDGET SMD VACUUM PICK UP TOOL

Budget SMD component pickup tool. This handy workshop SMD component pickup tool fits into your pocket and uses vacuum pressure to pick up your sensitive components without damaging them. An amazingly useful tool!

- Easy to use, one-hand operation.
- Picks up to 50g in weight.
- Supplied with 3 vacuum pads.

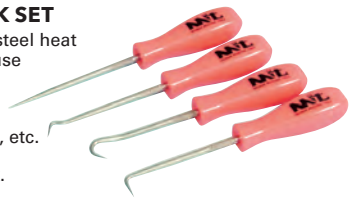
Cat.	Qty 1+	Qty 3+	Qty 6+
TH1978	$21.90	$19.30	$16.90

For next day delivery, or Click and Collect, see page 5

Workshop Tools

4 PIECE MINI PICK & HOOK SET

These hook tools have stainless steel heat treated points, and are ideal for use on O-rings, springs, snap rings, washers, checking soldering joints, general hobbyist kit building, and probing into things, etc. Hooks are: Straight pick, 90° hook, full hook, small angle hook.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1762	$19.90	$17.90	$15.90

PEARL CATCH

Incredibly handy tool for those moments when you need to pick up small fiddly bits and pieces.

- Will clip to and hold small nuts, bolts, washers, transistors, resistors, etc.
- Metal construction

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1842	$11.90	$10.70	$9.50

SUPER EXTENSION CLAW & MAGNETIC PICKUP

Actually two tools. Tool No. 1 is a 600mm long flexible syringe-action claw gripper similar in operation to a pearl catch. The 4 prong gripper will capture an object up to 15mm in diameter with about 500g of gripping force. It is ideal for retrieving, say, a nut or screws in an engine compartment or piece of equipment. Tool No. 2 is the same thing except that it has a magnet on the end instead of a claw. We sell them as a set because they complement each other.

	Cat.	Qty 1+	Qty 6+	Qty 20+
	TH1868	$9.90	$8.50	$7.50

MAGNETIC PICKUP TOOL WITH CLAW AND LED

These are a must for any workbench or toolbox. We've all dropped screws and tools into hard-to-reach places by accident, and retrieval can be a painful process. This device has a claw and magnet on the end of a 60cm spring-steel shaft, so you can work it into the strangest of places. A small LED also helps you see what you're doing! Exceptionally useful.

- Magnetic tip with claw
- Flexible spring steel shaft
- LED illumination

SPECIFICATIONS	TH1864
Batteries	3 x LR44 (Included)
Weight	90g
Dimensions	60cm

	Cat.	Qty 1+	Qty 6+	Qty 20+
	TH1864	$16.90	$14.90	$13.90

SCRIBER

This pen type tool will scribe on metal, glass, plastic, ceramics and tools. Stylus is made of tungsten steel. Looks like a pen, and has a pocket clip

- Length 110mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2120	$9.90	$8.50	$7.50

AUTOMATIC CENTRE PUNCH

This handy tool allows you to make a centre punch mark with one hand. You simply hold the unit against where you would want a centre punch mark, apply downward pressure until the internal hammer mechanism trips. The pressure is adjustable, depending on the hardness of the surface. Sturdy brass body with hardened steel centre punch. 125mm long overall.

- Sometimes called a prick-punch

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1770	$9.90	$8.50	$7.50

Magnets

LARGE RARE EARTH MAGNETS - PAIR

These rare earth magnets are exceptionally strong. They are made from NdFeB (Neodymium Iron Boron), providing the highest available magnetic energy of any material. Suitable for a wide variety of applications where a very strong magnet is required. The nickel casing protects the magnets because the material is very brittle.

- Sold as a pair
- Dimensions: 19mm dia x 28.2mm long
- Grade: NdFeB, N35
- Coating: Nickel

	Cat.	Qty 1+	Qty 6+	Qty 20+
Pair	LM1652	$39.90	$35.90	$31.90

FERRITE MAGNETS

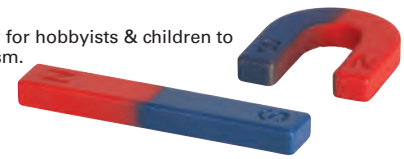
Ideal for hobby and craftwork, school projects etc. Can be glued to wood, plastic rubber etc.

	Cat.	Qty 1+	Qty 6+	Qty 20+
10L x 10W x 4Dmm - Pkt 12	LM1616	$8.90	$7.90	$6.90
20L x 15W x 5Dmm - Pkt 6	LM1614	$8.90	$7.90	$6.90

MAGNET BARS

Educational magnets. Ideal for hobbyists & children to learn more about magnetism.

- Each end is marked with "N" or "S"



	Cat.	Qty 1+	Qty 6+	Qty 20+
Bar Magnet - 70L x 12W x 5Dmm	TH1874	$2.40	$2.15	$1.90
U Shaped - 30mm x 30mm	TH1873	$2.40	$2.15	$1.90

RARE EARTH MAGNETS WITH MOUNTING HOLES

Super powerful rare earth magnets with 4.5mm countersunk mounting holes so you can fix them to your project to latch a door closed, etc.

	Cat.	Qty 1+	Qty 6+	Qty 20+
Round 25(dia) x 5mm	LM1626	$23.90	$20.90	$18.70
Rectangle 50(L) x 20(W)mm	LM1628	$34.90	$31.90	$27.90

RARE EARTH MAGNETS

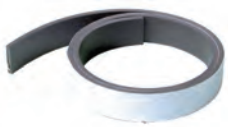
These magnets feature rare earth compounds combined with ferrite (anisotropic) to produce incredibly strong attraction/ repulsion. They are encased in nickel jackets because the material itself is very brittle. We warn you that getting a finger between these could result in a nasty pinch! They are provided with a nickel plated iron "keeper".

	Cat.	Qty 1+	Qty 6+	Qty 20+
Small - 10mm dia x 3mm - Pkt 4	LM1622	$18.90	$16.90	$14.90
Medium - 25mm dia x 5mm - Each	LM1618	$24.90	$22.40	$19.90

FLEXIBLE ADHESIVE MAGNETIC RUBBER STRIP

This self adhesive magnetic rubber strip can be cut down to suit an application and makes an ideal fridge magnet for adhering to promotional material such as menus, calendars etc.

- Dimensions: 15(W) x 500(L)mm
- 2mm thick



	Cat.	Qty 1+	Qty 6+	Qty 20+
	LM1612	$7.90	$7.20	$6.50

free boxes!

MOVING HOUSE? NEED SOMETHING FOR STORAGE?

In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

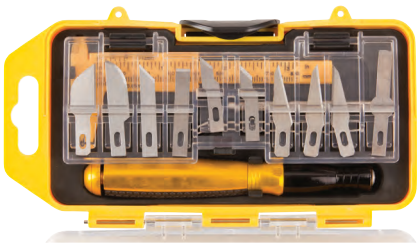
Knives & Files

14 PIECE PRECISION HOBBY KNIFE SET

Handy hobby tool set comprising of 10 different blades, handle, 70mm long tweezers, 90mm long flat screwdriver and vernier calipers, which measure up to 81mm (3.1inches).

Blades included:

1 x #1 3 x #11
1 x #4 2 x #12
1 x #7 1 x #17
1 x #10



- Case dimensions: 170(W) x 85(W) x 35(D)mm

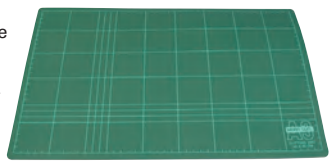
	Cat.	Qty 1+	Qty 3+	Qty 6+
Hobby Knife Set	TH1916	$24.90	$22.40	$19.90
Spare Blades - 10 Per Set	TH1917	$7.90	$7.20	$6.50

ARTWORK KNIFE

Light duty precision knife with safety cap. Ideal for fine angle cuts, etching, hollowing, scoring, scraping, scribing, stripping and trimming. Four piece jaw chuck method of blade retention.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Knife	HG9955	$5.90	$5.20	$4.70
Blades Pkt 5	HG9956	$4.90	$4.10	$3.70

BENCHTOP WORK MAT



Protect your benchtop. This durable A3 size PVC cutting mat is just the thing to protect your work benchtop. You can cut on it, solder, write on it, and not damage your workplace. The mat is 3mm thick, and measures 450 x 300mm.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	HM8100	$15.90	$13.70	$12.30

FILE SAW

Great for cutting odd shapes in plaster, PVC pipe, PVC sheeting, leather, plastic and many other soft materials. The blade measures 175mm long and the large, easy grip handle is 120mm long. Not to be used as a nerve broach or other dental work.

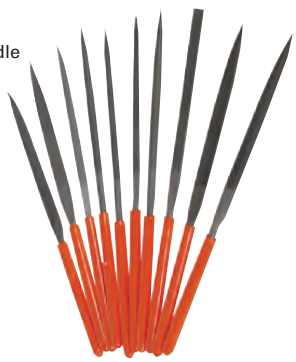
	Cat.	Qty 1+	Qty 3+	Qty 6+
File Saw	TH2127	$19.90	$17.90	$15.90

DEBURRING TOOL

Clean up the edges of a hole. Suitable for steel, plastic, wood etc. Blades are fully ground for safety. SK2 steel blades are hardened to HRC64. Supplied with spare blade. Will deburr virtually anything.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1845	$11.90	$10.70	$9.50

10 PIECE NEEDLE FILE KIT



Every toolbox should have a set of needle files. This set contains every profile you could ever need. All have integrated plastic handles and come in a handy storage wallet. Each is 162mm long.

Profiles:

- Round
- Elliptical
- Half-round
- Double half round
- Triangle
- Square
- Flat
- Flat tapered
- Knife
- Flat tapered safe back

	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Piece	TD2128	$17.90	$15.90	$14.30

Spanner And Allen Key Sets

10 PIECE SPANNER SET FOR ELECTRONICS

Ideal mini spanner set. Set of 10 pieces, open end/ring combinaion. Suitable for light hobbyist use.

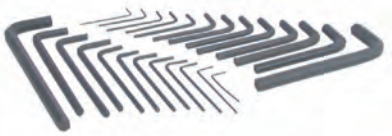
- Sizes supplied are: 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10 & 11mm
- Supplied in a plastic wallet

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1910	$29.90	$26.90	$23.90

25 PIECE ALLEN KEY SET

25 different size Allen keys in a plastic wallet. Both metric and imperial sizes.

- Metric: 1.27, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 8.0, 10.0mm
- Imperial 3/8, 1/4, 7/32, 3/16, 5/32, 9/64, 1/8, 7/64, 3/32, 5/64, 1/16"



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2052	$15.90	$14.30	$12.70

tech talk — Allen Keys for Cordless Drill Use

Allen keys are very common these days and small sets like the one above are really quite inexpensive. The boss here has a set where he has cut off the short return piece of the Allen key with an angle grinder. The Hex bit then fits conveniently into the chuck of the cordless drill. The low speed setting on a typical "cordless" is generally more than enough torque for most jobs. It's a great way to assemble flat-pack furniture & saves wear & tear on your fingers.

Ultrasonic Cleaners

DOMESTIC ULTRASONIC CLEANER

Suited to domestic use this ultrasonic cleaner cleans all your watches, jewellery, fountain pens, dentures, razor heads, printer heads, small silverware and small machined parts. Mains powered and easy to use. Fill the tank with water, add a mild cleaning solution and set the timer. The LCD tells you how long to go and the timer has 5 settings from 90 seconds up to 7 minutes 30 seconds.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Domestic Ultrasonic Cleaner	YH5408	$95.90	$89.90	$76.90

DIGITAL 2.5L 170W ULTRASONIC CLEANER

This unit features a generous 2.5 litre 304-grade stainless steel bowl, controllable heating element and digital controls. It comes with a lid (if you are using volatile solvents), features a stylish cabinet design and is supplied with a basket. Very well built.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	YH5412	$209.00	$188.90	$167.90

PCB WASH DEFLUXING SOLUTION

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts degreasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water- based (Biodegradable)

For other PCB products see page 54

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre Bottle	NA1070	$18.90	$16.90	$14.90

Watch repair tools:

Jaycar has been fiddling with micro tools for years now, from tiny jewellers screwdrivers to small spanner sets to tiny table mounted vices etc. We have discovered a source of reasonably priced watchmakers' tools (real; pull-watches-apart-tools.) Here they are, folks. We expect them to be popular; they are Jaycar kind of products.

2 PIECE WATCH CASE OPENER SET

This set consists of an adjustable opener that engages the little recesses on the back of a watch. You can adjust the removing lugs very accurately to get a tight fit - absolutely essential. The other half of the set looks like a small oyster shucking knife (Appropriate when you think about it!). It is just fine enough to get into that tiny groove that some of the older watch covers have.

- Can open cases 6 - 50mm diameter

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1929	$29.90	$26.90	$23.90

4 PIECE WATCHMAKERS' KIT

Central to this kit is the hand held watch case opener/holder. It has a screwadjustable case retainer with a very large selection of retaining lugs - indeed 18 in all, some the same. Also included as a large dusting bulb pump, No. 7 tweezers and fine dusting brush. You will be delighted with this set.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1932	$46.90	$42.40	$37.40

WATCHMAKERS MALLET WITH INTERCHANGEABLE HEADS

This unit weighs almost 90 grams and is 185mm long. It features 6 different heads, 4 steel ones, a brass one and acrylic plastic one. It seems that even in watchmaking you need a "persuader". Ball pein on the opposite end.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1927	$18.90	$16.90	$14.90

WATCH BRACELET LINK REMOVAL PLIERS

This tool enables you to remove and reinstall the fiddly little bracelet pins, so necessary when the bracelet band is new and generally too big for the wearer. It comes with a 1.0mm and 0.8mm pin removal insert.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1923	$49.90	$44.90	$39.90

WATCH CASE HOLDER

The sturdy, but adjustable frame has 4 nylon retaining posts to enable a good safe grip on the watch case. The frame could then be held in a vice, freeing up your hands.

Note: Watch not included.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1934	$17.90	$15.90	$13.90

WRIST STRAP SPRING BAR ASSORTMENT

This is a must. A selection of the little spring bars that get broken/bent/lost even by the most careful wearers. This set frees you from the tyranny of the watchmaker. One use will pay for the cost of the whole set. The assortment consists of a total of 360pcs of the most common sizes: from women's 8mm to men's 25mm. All 1.5mm Dia. In detail the set includes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 & 25mm types. Has single sided spring bar and double sided types. Supplied in quality compartment case.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1928	$29.90	$26.90	$23.90

PIN EXTRACTOR PRESS

A handy little pin-extractor/inserter press with a 0.8mm punch. Mainly intended for taking links out of watch bands, but endless other uses for jewellery making, modelmaking and hobbies.

- 2 spare pin punches
- Assortment of 12 pins

p.218 mini HSS tap & die set

Cat.	Qty 1+	Qty 3+	Qty 6+
TH2014	$13.90	$12.50	$11.10

Magnifiers

EYE MAGNIFIER

This 3 times magnifier is handy for checking PC boards, looking at stamps or coins, jewellery, etc, etc.

- Every hobbyist should have one
- Dimensions: 28(H) x 22(dia view area) x 40(dia base)mm

Cat.	Qty 1+	Qty 5+	Qty 10+
QM3515	$10.90	$9.50	$8.50

LED HANDHELD MAGNIFYER WITH THREE LENSES

This versatile illuminated hand magnifier set includes three interchangeable lenses. Built in LEDs mean this is great for bedtime reading, don't wake your partner reading with the lights on anymore.

SPECIFICATIONS	QM3519
Lenses Included	2.5x, 5x, 16x
Power	2 x AAA batteries
Dimensions	200(L) x 110 (W) x 27 (H)

Cat.	Qty 1+	Qty 5+	Qty 10+
QM3519	$22.90	$20.90	$17.90

MAGNIFYING GLASS

This huge 4.5" diameter viewer allows hands free operation. It will fold into a neat and easy to store package.

p.73 Digital Microscopes

Cat.	Qty 1+	Qty 5+	Qty 10+
QM3505	$11.90	$10.90	$9.50

HAND-HELD MAGNIFYING GLASS WITH COB LEDS

Powerful magnification with the added benefit of LEDs, all in a convenient hand-held case! It weighs just over 200g including batteries, so you can take it anywhere too. There are three LEDs so it will provide well-spread illumination of your subject matter. Includes LED on/off switch.

- 3 x COB LEDs
- Lightweight
- Handheld
- Batteries: 2 x AA (Not Included)
- Weight: 201g (Including Batteries)
- Dimensions: 114(W) x 240(H) x 20(D)mm

Cat.	Qty 1+	Qty 5+	Qty 10+
QM3535	$14.90	$13.90	$11.90

10X LED MAGNIFIER WITH SCALE

With all metal construction and glass optics, this superb little magnifier provides 10 dioptre magnification with razor-sharp clarity. Inside the viewer is a graduated scale in metric and imperial graduations so you can actually take measurements of an object down to fractions of a millimetre. Three LEDs and the 26mm eyepiece provide crystal-clear even illumination of the subject. Ideal for checking PCBs in preproduction, lab, science, education or engineering applications. 2x AA batteries included.

- 10x magnification
- All metal construction
- Satin chrome finish
- Ground glass optics
- Dimensions: 180(L)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM3539	$36.90	$33.20	$29.50

Laboratory Magnifiers & Lamps

LED HEADBAND MAGNIFIER

This magnifying headset leaves both hands free and can be worn over prescription or safety glasses. It also has a built-in LED light that can be rotated up, down or side to side to illuminate your work. There are three lenses that can be used in combinations to give 1.5x, 3x, 8.5x or 10x magnification. The head strap is fully adjustable and locks into position and the lens assembly can be swivelled up out of the way when not in use. A multitude of uses including lapidary, jewellery, model-making, electronics and camera repair.

- Requires 2 x AAA batteries

	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM3511	$36.90	$33.20	$29.50

ILLUMINATED GOOSENECK MAGNIFIER

The gooseneck magnifier is a valuable accessory for coin/stamp collectors, photography etc. The 2X main lens and 5X insert lens with the bonus of 2 LED lights, is a welcome addition for any hobbyist. The magnifier is clip-on or free standing. Suitable for most flat surfaces or workplace incline up to 38mm thick. The flexible metal arm ensures that you can position the magnifier just where it's needed. This handy magnifier also comes with a soft protective pouch for your lens to protect it from dirt and dust. It also has metal stablisers to ensure that your magnifier remains stable while working.

- Stands 225mm high
- Includes protective lens pouch
- Lens Diameter: 88mm
- Requires 3 x AAA batteries

	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM3532	$36.90	$33.20	$29.50

COLLAPSIBLE MINI MAGNIFIER

Collapses down into a compact size for storage or travel, but opens up into a powerful 8 dioptre magnifier, complete with LED illumination. Requires 3 x AAA batteries for the light, so it'll go anywhere you do.

Cat.	Qty 1+	Qty 5+	Qty 10+
QM3536	$16.90	$14.90	$13.90

3X DESKTOP MAGNIFIER WITH LEDS

Perfect for compact workspaces. A large 100mm 3-dipotre glass lens provides powerful magnification. 30 LEDs are mounted around the ring for perfect illumination. The desktop stand includes two knuckles so you can adjust the lens to where you need it. Mains powered, adaptor included.

- Compact desktop mount
- Adjustable stand
- 100mm 3-dipotre lens

1 YEAR WARRANTY

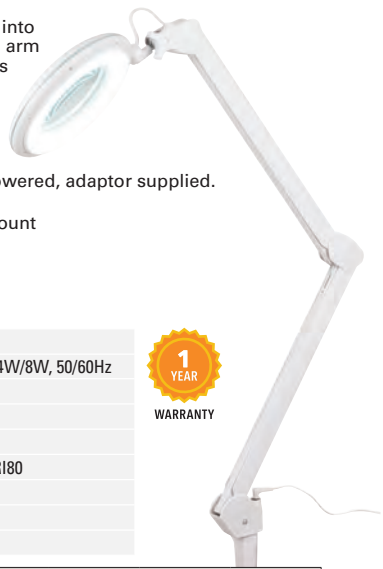
SPECIFICATIONS	QM3552
Power	240V @ 32mA, 6W, 50/60Hz
LED Type	SMD 2835
LED Lifetime	20,000 Hours
Lumens	560
Light Colour	6000-6500K -CRI80
Lens	100mm Glass
Weight	1.2kg
Cable Length	1.3m
Dimensions	184(W) x 330(H) x 160(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Desktop 30 LED Magnifying Lamp	QM3552	$69.90	$62.90	$55.90
4 inch 5 diopter lens to suit	QM3553	$14.90	$13.90	$11.90

3X LABORATORY MAGNIFIER WITH LEDS

The ultimate workbench companion when working on tiny projects. Powerful 127mm diameter 3-dipotre magnification lens brings tiny items into clear view, while the fully adjustable arm puts it wherever you need it. 60 LEDs around the ring of the magnifier provide powerful illumination with high / low brightness settings. A plastic flip-down cover keeps the magnifier glass in top condition when not in use. Mains powered, adaptor supplied.

- High / low light settings
- Fully adjustable arm with clamp mount
- Large diameter magnifier



1 YEAR WARRANTY

SPECIFICATIONS	QM3554
Power	240V @ 62mA, 4W/8W, 50/60Hz
LED Type	SMD 2835
LED Lifetime	20,000 Hours
Lumens	380/760
Light Colour	6000-6500K -CRI80
Lens	127mm Glass
Weight	2.4kg
Height	Up to 900mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Laboratory Magnifier Lamp	QM3554	$139.00	$124.90	$110.90
5 Inch 5 dioptre lens to suit	QM3555	$14.90	$13.90	$11.90
5 Inch 8 dioptre lens to suit	QM3556	$22.90	$20.90	$17.90

ROLLING FLOOR BASE FOR MAGNIFYING LAMPS

Mount a magnifying lamp to this base and you can roll it around the floor providing even greater flexibility in observation work. Great for lab work. Heavy base so it doesn't easily topple over.

- Suitable for use with magnifiers QM3554, QM3546 and QM3548
- Dimensions: 700(H) x 385(Dia)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM3549	$119.00	$106.95	$94.95

NONE OF THE ABOVE PRODUCTS MAGNIFY OUR PRICES!!

For next day delivery, or Click and Collect, see page 5

Storage Cases

Ideal for carrying small components and is an indispensable addition to any tool kit. See through plastic construction enables the contents to be easily identified and the 2 snap action latches secure the lid and keep everything in its rightful place.

6 COMPARTMENT MINI STORAGE CASE

2 of the compartments have guides to enable them to be divided in half and 2 dividers are included.

- Compartments: 27(W) x 77(L) x 23(D)mm
- Overall dimensions: 125(W) x 85(L) x 27(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6308	$3.50	$2.90	$2.60

18 COMPARTMENT STORAGE BOX

Consists of three rows with removable dividers so you can configure it for longer parts.

- Compartment size: 37(L) x 37(W) x 30(D)mm
- Dimensions: 230(L) x 115(W) x 35(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6306	$5.50	$4.70	$4.10

18 COMPARTMENT STORAGE CASE

6 compartments measuring 43(W) x 37(D) x 167(L)mm. These can be divided into 2, 3 or 4 sub-compartments using the dividers provided.

- Overall dimensions: 274(W) x 40(D) x 175(L)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6312	$11.90	$10.70	$9.50

28 COMPARTMENT STORAGE CASE

Can be configured to have anything from 4 big compartments measuring 350(W) x 52(L) x 45(D) mm to 28 compartments measuring 48(W) x 52(L) x 45(D) mm, or anything in between using the dividers provided.

- Overall dimensions: 357(W) x 48(H) x 220(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6313	$18.90	$16.90	$14.90

INDUSTRIAL STORAGE CASES

Built for the rough and tumble of the building site, factory or workshop. Made from sturdy ABS with solid clasps and removable compartment trays so you can take parts with you to the job. Two sizes available:

15 COMPARTMENT STORAGE

12 compartments: 55(L) x 40(W) x 50(D)mm
3 compartments: 80(L) x 50(W) x 50(D)mm
Case size: 335(L) x 205(W) x 60(D)mm

19 COMPARTMENT STORAGE

4 compartments: 55(L) x 40(W) x 50(D)mm
8 compartments: 80(L) x 50(W) x 50(D)mm
7 compartments: 110(L) x 80(W) x 50(D)mm
Case size: 335(L) x 420(W) x 60(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
15 Compartments	HB6304	$10.90	$9.90	$8.90
19 Compartments	HB6305	$20.90	$18.90	$16.90

Tool Cases & Boxes

FOAM INSERT ALUMINIUM ATTACHÉ CASES

Ideal for Camera, Video and Test Equipment, these cases feature removable 15mm square foam pieces so you can make a hole to the exact size of your valuable equipment. The lid also has a foam insert for complete protection. Cases are lockable and supplied with two keys. Great for wine and glasses also.

HB6355

HB6356

W x D x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Small 407 x 277 x 95	HB6355	$54.90	$49.40	$43.90
Large 450 x 320 x 145	HB6356	$99.90	$89.90	$79.90

Related Product:
CONDUCTIVE FOAM

Non-static reusable sheeting for storing CMOS, IC's, LSI's, etc.

- Will store up to 150 ICs on one sheet
- Size 225 x 150mm
- Ideal for lining storage trays to provide antistatic protection
- Can be cut with scissors or hobby knife for smaller pieces

	Cat.	Qty 1+	Qty 3+	Qty 6+
	ZV9998	$11.90	$10.70	$8.20

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David Weir likes to

think. possible.

"I'm a studio sound engineer. 10 years ago, digital technology was not readily available. This setup I soldered together on my own saves space and is portable. Analogue equipment would be 4 times this size and not portable! Interested to see how it progresses!"

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Parts Cabinets

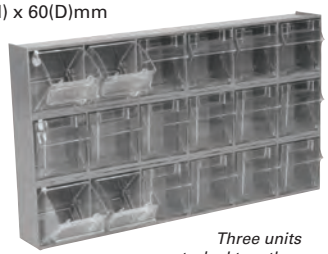
6 BIN PARTS RACK CABINETS

SMALL

Similar to our large parts rack, this unit is designed to house smaller items such as ICs, nuts, screws etc.

- Trays measure 60(W) x 65(H) x 45(D)mm each and also tilt down to 45 degrees
- Can be wall mounted & multiple units can be used for larger storage requirements
- Overall dimensions: 400(W) x 75(H) x 60(D)mm

LARGE



Three units stacked together.

This handy parts rack holds a variety of components in neat, see through trays that tilt down to an angle of 45 degrees for easy access.

- Each has an integral label holder and measures 85(W) x 95(H) x 65(D)mm
- The rack can be wall mounted and multiple units can be nested together for larger storage requirements
- Dimensions: 600(W) x 110(H) x 90(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Small Rack Cabinets	HB6317	$12.90	$11.60	$10.30
Large Rack Cabinets	HB6318	$31.90	$28.70	$25.50

30 DRAWER PARTS CABINET

6 rows of 5 drawers, measuring 50(W) x 115(D) x 30(H)mm. Ideal for workshop use & can be wall mounted.

- Stack multiple units together for larger storage
- Overall size: 280(W) x 130(D) x 210(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
30 Drawers	HB6323	$36.90	$33.20	$29.50

33 DRAWER PARTS CABINET

A very useful cabinet with 8 rows of 4 pull out drawers (32 drawers) plus one full width pull out drawer at the bottom for larger items (total 33 drawers). Each small drawer is 125mm deep and 65mm wide. The unit can be free standing, or, wall mounted if required. Ideal for storage requirements and workshop.

- Overall dimensions: 414(H) x 304(W) x 135(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
33 Drawers	HB6330	$36.90	$33.20	$29.50

4 TRAY TOOL/STORAGE CASE

On-site storage of parts, tools, fishing tackle or anything else you need to tote around. Each compartment has a 233 x 122 x 32mm 13 compartment storage box for small items with dividers that can be removed to accommodate larger things. All the hinges and catches are the durable pintle type, not a flimsy bit of folded plastic that will snap after a week. The top tray has a generous 265 x 160 x 65 space for ancillary items and it's finished in a tasteful shade of industrial yellow and black.

- Dimensions: 270(W) x 260(H) x 150(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6302	$29.90	$26.90	$23.90

Man Cave Storage

44 PIECE WALL MOUNTED STORAGE

Keep your workbench neat and tidy, while having everything at your fingertips. This fantastic 44-piece organiser mounts to the wall, while providing various methods for storage. There's 28 storage bins in various sizes, 4 assorted tool holders, and 10 pegs for hanging items too. It can be laid out in all sorts of different configurations to suit your particular needs. It takes just minutes to assemble, and you're ready to go. Minor assembly required.

- Various tool holders
- Assorted bin sizes
- Flexible mounting configuration

SPECIFICATIONS	HB6340
Overall Weight	4.9kg
Dimensions	Small Grey Bins: 101(w) x 115(d) x 70(H)mm Blue Bins: 100(W) x 163(D) x 72(H)mm Large Grey Bins: 105(W) x 210(D) x 70(H)mm Wall Mounted Rack: 479(W) x 538(H) x 15(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
44 Piece	HB6340	$45.90	$40.90	$35.90

16 BIN TABLETOP STORAGE ORGANISER

A simple way to keep your desktop free from component clutter and mess. The benchtop stand provides support for 12 small storage bins, and 4 large storage bins to hold your components, spare parts, small tools, or whatever you like! There is also a fantastic magnetic strip along the top of the frame, perfect for storing all your steel hand tools such as screwdrivers and spanners, or even just loose screws, bolts, nuts and other easily lost metal parts! Some basic assembly is required.

- Magnetic strip for tools
- Plenty of storage
- No fuss setup

SPECIFICATIONS	HB6341
Bin Capacity	Red: 2.2kg, Blue: 3.6kg
Weight	2.7kg
Dimensions	Red Bins: 103(W) x 165(D) x 76(H)mm Blue Bins: 152(W) x 235(D) x 127(H)mm Organiser: 635(W) x 254(D) x 658(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
16 Bins	HB6341	$56.90	$50.90	$44.90

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

For next day delivery, or Click and Collect, see page 5

Inspection Cameras

INSPECTION CAMERA WITH 2.4" LCD

With a camera diameter of only 9mm, detailed inspection of some very tight spots is possible. Its comfortable grip and forward facing controls make it easy to detect and diagnose the inaccessible. 9mm camera head for up-close visual inspections in tight spaces. Requires 4 x AA batteries.

- Forward facing controls
- Adjustable brightness LED illuminator
- Adjustable LCD brightness

SPECIFICATIONS	QC8710
Sensor	CMOS
Display	2.4" colour LCD
Resolution	480 x 234 pixels
Reach	1m
Attachments	Mirror, hook & pick-up magnet

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Inspection Camera	QC8710	$179.00	$160.90	$142.90
Extension Shaft 2m	QC8702	$99.90	$89.90	$84.90

USB MINI INSPECTION CAMERA WITH 1.5M FLEXIBLE CABLE

Inspect areas your head or hands simply can't fit into and your limited humans eyes can't see. Ideal for finding dropped screws/bolts, seeing inside car engine bays, checking inside pipes, under grates, up rangehoods, in ceilings, and much more. This unit comes with three brilliant add-ons, a hook, a magnet, and a 45 degree mirror that can be attached to the end of the camera to help you retrieve those important bits. There are 4 white LEDs at the front of the camera that can have their brightness adjusted with a dial fused onto the cable. With the supplied software you can also capture video and images for playback at a later date. Requires no batteries, just connect to your laptop and start viewing

- Water resistant camera head and cable
- 4 White LED Lights (brightness adjustable)
- Compatible with Windows XP, Vista, 7, 8 & 10

SPECIFICATIONS	QC3373
Flexible Cable Neck Diameter	5mm
USB Cable	USB2.0
Camera Head Outer Diameter	10mm
Resolution	640x480
Lens View Angle	54°
Focal Distance	6cm-infinite
Frame Rate	up to 30fps @ 640x480
Length	1.5m

	Cat.	Qty 1+	Qty 2+	Qty 4+
1.5m	QC3373	$55.90	$50.30	$47.50

find out more in store

Our staff offer friendly and helpful service. We're here to help.

INSPECTION CAMERA WITH RECORD & DETACHABLE WIRELESS SCREEN

With a 9mm diameter and four LEDs, the head of this inspection camera can capture video and pictures in confined and dark locations. The head and flexible boom being IP67 rated enables them both to be submerged in water during operation (however the base unit and LCD cannot get wet! Caution!). Included is a 2GB microSD card on which video and pictures can be recorded. These files can then be viewed on a TV with the included Video out cable or saved onto a PC via the USB cable included. The 3.5" LCD is detachable from the handle, which receives a wireless transmission from the camera. This enables more flexibility during operation, i.e. you can hold and manoeuvre the camera with one hand whilst keeping the LCD in full view in the other hand all the time. It makes operation easier.

- 2GB microSD card included (accepts up to 16GB)
- IP67 rated camera and flexible boom
- 4 white LEDs
- Three useful accessories: hook, mirror, magnet
- Strong plastic carry case
- 4 x AA batteries required for camera handle
- USB cable included
- Video out cable included
- Power supply 5VDC 1A included

1 YEAR WARRANTY

DIMENSIONS	QC8712
Monitor	100 x 70 x 25mm
Camera Diameter	9mm
Camera Handle	86 x 145 x 41mm
Flexible Boom	1m

SPECIFICATIONS	QC8712
Photo & Video Resolution	640 x 480
Video Memory Usage Approx.	27MB/min - With 2GB microSD card approx.
Photo Memory Usage Approx.	75kB - With 2GB microSD card approx.
LCD	3.5"
Wireless Frequency	2.4GHz
Lithium-Ion Battery In LCD	3hour Charge, 2 hour usage.

	Cat.	Qty 1+	Qty 2+	Qty 4+
Inspection Camera	QC8712	$339.00	$299.00	$269.00
Extension Shaft 2m	QC8702	$99.90	$89.90	$84.90

INSPECTION CAMERA WITH RECORD AND ILLUMINATION

NEW

1 YEAR WARRANTY

This pocket-size endoscope camera has a 1m camera tube wound inside the back of the product. A great tool for inspecting hard to reach areas. The 5.5mm 720P HD camera (together with the 2*times zoom) allows you to see even the most tiny things clearly. Includes hook, mirror and magnet attachments.

- 5.5mm Semi-Flexible Tube
- SD Card Recording
- Drop Resistant
- 6 White LED Illumination
- 3 Inch Display

SPECIFICATIONS	QC8716
Monitor	160 x 85 x 35mm
Camera Diameter	5.5mm
Flexible Boom	1m
Photo & Video Resolution	1280 x 720
LCD	3"
Storage	Requires microSD card up to 32GB

	Cat.	Qty 1+	Qty 3+
	QC8716	$339.00	$299.00

digital multimeters:

A multimeter digital or analogue, but mainly digital these days, is without a doubt your most trusted and widely used piece of test equipment. Indeed, it may only be your ONLY piece of test gear and certainly should be your first investment in test gear. I can still remember getting one for my 14th birthday. I treasured it and it taught me so much.

This year, we have made no changes to our regular lineup. We simply cannot find better meters than what we already have for any price. There have been some price reductions on some units, which are highlighted in the following pages. The relative weakness of the Australian Dollar has not helped.

The exception to this, we are happy to say, have been across-the-board price reductions in our range of AC only and AC/DC Clamp Meters. You hardly see a good electrician these days without one and why not? They are also multimeters in their own right, but with massive current measuring capacity. The price reductions are noteworthy.

Of course, we just don't sell multimeters. We have spare fuses (a very specialist item), spare leads, shunts, and all sorts of support products.

And remember, most of our range of multimeters carry a LIFETIME GUARANTEE. Not even many of the ridiculously expensive Euro or US made products have a lifetime guarantee, so why pay 2-3 times as much for the similar-performing meter when you don't have to?

It is no fluke that we sell more multimeters in Australia and New Zealand than anyone else. (Its quite likely if the statistics were available, we probably sell more than everyone else combined!). The reason for this, of course, is:

- We are trusted
- We stand by our products 7 days a week
- We deliver the best quality for the price
- We have a great range
- And we are going to reveal to you our BIG SECRET

What's the secret? It is this. We don't carry spare parts for our meters! Why?

They are so reliable, they hardly ever break. (We would have to eventually throw out the spare parts because they wouldn't be used!)

If, in the unlikely event you had a faulty meter, we would simply give you a new one. (We hardly ever do that, because almost NO ONE comes back!)

If only selling cars was that simple!

Best wishes

Gary Johnston

pick me

Digital Multimeters

	QM1500	QM1517	QM1527	QM1529	QM1321	QM1323	QM1552	QM1446	QM1551	QM1549	QM1571	QM1594	QM1578	XC5078	QM1493
Display (Count)	2000	2000	2000	2000	4000	4000	2000	2000	4000	4000	4000	4000	6000	2000	4000
Security Category	Cat II 500V	Cat III 600V	Cat III 500V	Cat III 600V	Cat III 1000V	Cat III 600V	Cat IV 600V	Cat III 600V	Cat III 600V	Cat III 600V	Cat IV 600V	Cat IV 600V	Cat III 1000V	Cat III 600V	Cat III 1000V
Backlight		•	•	•	•	•	•	•	•	•	•	•	•		•
Bargraph													•		•
Auto-range				•	•	•		•	•	•	•	•	•	•	
True RMS					•		•		•	•	•		•		
VDC	1000V	500V	500V	600V	1000V	600V	1000V	1000V	600V	1000V	1000V	250V	1000V	600V	1000V
VAC	750V	500V	500V	600V	750V	600V	750V	700V	600V	1000V	1000V	250V	1000V	600V	750V
ADC	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	200mA	
AAC	-	-	-	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	200mA	
Resistance	2M	2M	2M	20M	40M	40M	200M	20M	40M	40M	40M	20M	60M	20M	400R
Capacitance					100mF	100µF	100mF		100µF	100µF	100µF	100µF	6000µF		
Frequency					10MHz	10MHz	10MHz		10MHz	10kHz	10MHz	10MHz	10kHz		
Inductance							20H								
Temperature						760°C	1000°C	1000°C	760°C		760°C	750°C	760°C		
Tachometer								•							
Duty Cycle					•	•			•	•	•		•		
Dwell								•							
Continuity			•	•	•	•	•	•	•	•	•	•	•	•	
Diode Test	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Transistor Test	•														
Data Logger											•		•		
Relative Measurement						•	•		•	•	•	•	•		
Data Hold		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Min / Max Hold					•		•	Max Hold			•		•	Max Hold	
Non Contact Voltage			•	•	•	•	•		•		•	•			
IP Rated										IP67	IP67		IP67		
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For next day delivery, or Click and Collect, see page 5

Digital Multimeters CONTINUED

LOW COST DMM

PERFECT FIRST METER

This is a full featured meter with plug-in 4mm probes AND transistor tester. This is the ideal first multimeter, and will give years of faithful service, in fact, you will only need to replace this meter if you require a unit with very high input impedance.

- 19 Range
- 2000 Count
- Transistor Test
- Diode Test
- 10A DC Current
- Ideal First Teter
- Compact Size

2 YEAR WARRANTY

SPECIFICATIONS	QM1500
Display	2000 count
Measurement Cat.	Cat II 500V
Basic Vdc Accuracy	0.500%
DC Voltage	200mV, 2V, 20V, 200V, 1000V (± 0.5%)
AC Voltage	200V, 750V (Max input 750V RMS) (± 1.2%)
DC Current	200µA, 2mA, 20mA, 200mA, 10A (± 1.2%)
AC Current	-
Resistance	200Ωm 2kΩ, 20kΩ, 200kΩ, 2MΩ (± 1.2%)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
Ac Rectification	Average
Input Impedance	1M
Special Features	Transistor test
Battery / Fuse	9V / 500mA/250V (all included)
Dimensions	125(H) x 68(W) x 23(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1500	$11.90	$10.70	$9.50

ECONOMY CAT III DMM WITH DATA HOLD

A simple and practical multimeter with a luminous backlit display, data hold function, shock-proof durable design. A fully featured multimeter perfect for a student or the enthusiast on a budget. The durable enclosure helps prevent damage from knocks and falls.

- Cat III 600V
- 2000 Count
- Data Hold
- Square Wave Output
- Backlit Display
- Continuity Buzzer

2 YEAR WARRANTY

SPECIFICATIONS	QM1517
Display	2000 count
Measurement Cat.	Cat III 600V
Basic Vdc Accuracy	2.000%
DC Voltage	200mV, 2000mV, 20V, 200V, 500V ± (1.0% + 10)
AC Voltage	200V, 500V ± (2.0% + 5)
DC Current	200µA, 2000µA, 20mA, 200mA, 10A ± (2.0% + 5)
AC Current	-
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ ± (2.0% + 5)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
Ac Rectification	Average
Input Impedance	1M
Special Features	Data hold, backlight, square wave output, buzzer
Battery / Fuse	9V / F200mA/250V (all included)
Dimensions	115(H) x 65(W) x 30(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1517	$18.90	$17.00	$15.10

Digital Multimeters CONTINUED

DATA HOLD DMM WITH NON CONTACT AC VOLTAGE DETECTION

A handy digital multimeter with lots of features at a great price has all the features you would expect including holster and probes. Excellent for those that are ready to take the next step in the world of electronics. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.

- 19 Range
- 2000 Count
- Non-contact Voltage Detection
- Diode Test
- 10A DC Current
- Data Hold
- Backlight
- Auto Power-off
- Continuity Buzzer

2 YEAR WARRANTY

SPECIFICATIONS	QM1527
Display	2000 count
Measurement Cat.	Cat III 500V
Basic Vdc Accuracy	0.800%
DC Voltage	200V, 500V (± 0.8%)
AC Voltage	200µV, 2mV, 20mV, 200V, 500V (± 1.2%)
DC Current	200µA, 2mA, 20mA, 200mA, 10A (± 1%)
AC Current	-
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ (± 1%)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
Ac Rectification	Average
Input Impedance	1M
Special Features	Transistor test, Data hold, backlight, non-contact voltage
Battery / Fuse	9V / 200mA/600V (all included)
Dimensions	145(H) x 65(W) x 35(D)mm

This meter includes QUALITY Test Leads

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1527	$24.90	$22.40	$19.90

AUTORANGING DMM WITH NON-CONTACT VOLTAGE DETECTION

This Cat III DMM is suitable for voltages up to 600VAC and has 15mm high digits for easy reference. Featuring overload protection and indication, diode check, continuity check, and you won't have to worry about batteries going flat with the auto power off feature. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.

- Cat III 600V
- 2000 count
- Auto ranging
- Non-contact voltage detection
- Backlight
- Data hold
- Low battery warning
- Auto power-off

LIFE LIFETIME GUARANTEE

	QM1529
Display	2000 count
Measurement Cat.	Cat III 600V
Basic VDC Accuracy	0.800%
DC Voltage	200mV, 2V, 20V, 200V, 600V (± 0.8%)
AC Voltage	200uV, 2mV, 20mV, 200V, 600V (± 1%)
DC Current	200µA, 2mA, 20mA, 200mA, 10A (± 3%)
AC Current	200µA, 2mA, 20mA, 200mA, 10A (± 3%)
Resistance	200Ω 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (± 1.5%)
AC Rectification	Average
Input Impedance	10M
Special Features	Data hold, backlight, non-contact voltage
Battery / Fuse	2 × AAA / 200mA/600V (all included)
Dimensions	140(H) × 70(W) × 31(D)mm

This meter includes QUALITY Test Leads

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1529	$29.90	$26.90	$23.90

For next day delivery, or Click and Collect, see page 5

Digital Multimeters CONTINUED

AUTORANGING TRUE RMS DMM WITH NON-CONTACT AC DETECTION

Our entry level True RMS Multimeter featuring autoranging, 1000V CAT III rating, Non contact voltage detection. With a sturdy construction and backlit display and quality test leads this is the perfect multimeter for an apprentice or novice hobbyist.

- Cat III 1000V
- 4000 count
- Overload protection
- Capacitance
- Frequency
- Min/max hold
- Backlight
- Auto power off

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	QM1321
Display	4000 count
Measurement Cat.	Cat III 1000V
Basic VDC Accuracy	1.500%
DC Voltage	40mV, 400mV, 4000mV, 40V, 400V, 1000V
AC Voltage	40mV, 400mV, 4000mV, 40V, 400V, 750V
DC Current	400µA, 4000µA, 40mA, 400mA, 4A, 10A
AC Current	400µA, 40mA, 400mA, 4A, 10A
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ
Capacitance	10nF, 100nF, 1µF, 10µF, 100µF, 1mF, 10mF, 100mF
Frequency	10Hz, 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz
Inductance	-
Temperature	-
AC Rectification	True RMS
Input Impedance	10M
Special Features	Backlight, min/max hold
Battery / Fuse	9V / 0-5A/1000V 10A/1000V (all included)
Dimensions	200(H) x 92(W) x 60(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1321	$39.90	$35.90	$31.90

CAT III DMM WITH TEMPERATURE

A budget-priced meter with everything you need - capacitance, temperature and 10A on AC and DC, compact and light weight with rugged moulded case.

- Non-contact voltage
- Duty cycle
- Backlight
- Rugged moulded case

LIFE
LIFETIME GUARANTEE

Case & K-probe included.

	QM1323
Display	4000 count
Measurement Cat.	Cat III 600V
Basic VDC Accuracy	0.500%
DC Voltage	400mV, 4V, 40V, 400V, 600V (± 0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 600V (± 1.2%)
DC Current	4mA, 40mA, 400mA, 10A (± 2.5%)
AC Current	4mA, 40mA, 400mA, 10A (± 3%)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (± 1.2%)
Capacitance	4nF, 40nF, 4µF, 40µF, 100µF, (±3%)
Frequency	4kHz, 40kHz, 400kHz, 4000kHz, 10MHz
Temperature	-20°C to +760° (±3%)
AC Rectification	Average
Input Impedance	10M
Special Features	Non-contact voltage, duty cycle, backlight
Battery / Fuse	9V / F10A/250V, F500mA/250V (all included)
Dimensions	138(H) × 68(W) × 37 (D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1323	$56.90	$50.90	$44.90

Digital Multimeters CONTINUED

CATIV TRUE RMS INDUCTANCE/CAPACITANCE DMM

Powerful frequency measurement with high accuracy, as well as capacitance up to 100mF!
It's a serious choice for serious tasks.
Moulded case and the added facility of non-contact voltage detection.

- Cat IV 600V rated
- Backlit LCD
- Frequency
- Relative measurement
- Min / max
- Data hold
- Leads & K-type thermocouple included
- Inductance
- Capacitance

LIFE
LIFETIME GUARANTEE

	QM1552
Display	2000 count
Measurement Cat.	Cat III 1000V / Cat IV 600V
Basic VDC Accuracy	0.5%
DC Voltage	200mV, 2V, 20V, 200V, 1000V (±0.5%)
AC Voltage	200mV, 2V, 20V, 200V, 750V (±0.8%)
DC Current	200µA, 200mA, 10A (±1.0%)
AC Current	200µA, 200mA, 10A (±1.2%)
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ (±0.8%)
Capacitance	10nF - 100mF
Frequency	10Hz, 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz (±0.1%)
Inductance	2mH-20H
Temperature	-20 to 1000°C / 0 to 1832°F (±2-3%)
AC Rectification	True RMS
Input Impedance	10M
Special Features	Non-contact voltage, back light, data hold, diode test, auto power off
Battery / Fuse	9V
Dimensions	200(L) × 92(W) × 60(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1552	$69.90	$62.90	$55.90

AUTOMOTIVE DMM WITH DWELL AND TACHO

Perfect for the workshop as an an engine analyser as well as basic DMM. Full dwell angle measurement and tacho, with max / data hold and bright backlit LCD.

- Dwell angle
- RPM x10
- Data hold
- Max hold
- Continuity & diode test
- Backlight
- Auto power off

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	QM1446
Display	2000 count
Measurement Cat.	Cat II 1000V / Cat III 600V
Basic VDC Accuracy	
DC Voltage	200mV, 2V, 20V, 200V, 1000V (± 0.8%)
AC Voltage	2V, 20V, 200V, 700V (± 1.0%)
DC Current	20mA, 200mA, 2A, 10A (± 1.5%)
AC Current	20mA, 200mA, 2A, 10A (± 1.8%)
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (± 1.0%)
Capacitance	40nF, 400nF, 4µF, 40µF, 100µF (± 3%)
Frequency	5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 5MHz, 10MHz (± 1.2%)
Inductance	-
Temperature	-20 to 1000°C / -4 to 1832°F (± 5%)
AC Rectification	Average
Input Impedance	10M
Special Features	Dwell angle, diode test, continuity test, engine revolutions, data hold, backlight
Battery / Fuse	2 x 1.5V AA /
Dimensions	180(L) x 87(W) x 50(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1446	$56.90	$50.90	$44.90

For next day delivery, or Click and Collect, see page 5

Digital Multimeters CONTINUED

CAT III TRUE RMS AUTORANGING 4000 COUNT DMM WITH TEMPERATURE & NON-CONTACT AC VOLTAGE DETECTION

LIFE
LIFETIME GUARANTEE

A powerful true RMS multimeter that includes non-contact voltage testing, backlit LCD, and a carrying pouch. The rear of the unit has a foldout stand so you can sit the meter at a comfortable viewing angle on your desk, workbench or car. Powered by 1 × 9V battery (included).

- Backlit LCD
- Leads & K-type thermocoupleincluded
- Automatic (-) Negative Polarity Indication
- Data Hold
- 30 Min Auto Power Off
- Carry/Storage Case For DMM & Leads

	QM1551
Display	4000 count
Measurement Cat.	Cat III 600V
Basic VDC Accuracy	1.500%
DC Voltage	400mV, 4V, 40V, 400V, 600V (± 1.5%)
AC Voltage	400mV, 4V, 40V, 400V, 600V (± 2.0%)
DC Current	400µA, 4000µA, 40mA, 400mA, 10A (± 1.5%)
AC Current	400µA, 4000µA, 40mA, 400mA, 10A (± 1.8%)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (± 1.2%)
Capacitance	40nF, 400nF, 4µF, 40µF, 100µF (± 3%)
Frequency	5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 5MHz, 10MHz (± 1.2%)
Temperature	-20°C-760°C/ -4°F-1400°F (± 3%)
AC Rectification	True RMS
Input Impedance	10M
Special Features	Continuity, diode check, blue back lit LCD, non-contact voltage, foldout stand
Battery / Fuse	9V / 500mA/250V, F10A/250V (all included)
Dimensions	138(L) × 68(W) × 37(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1551	$74.90	$66.90	$59.90

IP67 TRUE RMS AUTORANGING CAT IV DMM

This is an excellent true RMS multimeter that features a large, easily read display and carries an IP67 environmental rating. This means the multimeter is waterproof and will not be damaged if accidentally dropped into water or left out in the rain. The meter has data hold and relative measurement capabilities and is housed in a robust, double moulded case. Includes leads, soft carry case and user manual. Double moulded case.

- IP67 Waterproof
- True RMS
- Auto Power-Off
- Backlight
- Data Hold & Relative Function
- Diode Test
- Autoranging
- Audible Continuity
- 10A Current Range

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	QM1549
Display	4000 count
Measurement Cat.	Cat IV 600V
Basic VDC Accuracy	0.5%
DC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.8%)
DC Current	4mA, 40mA, 400mA, 10A (± 1.2%)
AC Current	4mA, 40mA, 400mA, 10A (± 1.8%)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ (± 0.8%)
Capacitance	4nF, 40nF, 4µF, 40µF, 100uF (±3%)
Frequency	4kHz, 40kHz, 400kHz, 4MHz 10MHz (±1.5%)
Inductance	-
Temperature	-
AC Rectification	True RMS
Input Impedance	10M
Special Features	IP67, data-hold, relative measurement, backlight
Battery / Fuse	9V / F10A/1000V, F500mA/100V (all included)
Dimensions	182(H) x 82(W) x 55(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1549	$99.90	$89.90	$79.90

Digital Multimeters CONTINUED

IP67 TRUE RMS AUTORANGING CAT IV DMM WITH WIRELESS USB INTERFACE

A quality true RMS multimeter with a wireless USB computer interface, non-contact voltage indicator, relative zero and data hold. Double moulded housing is impact resistant and quite durable, and IP67 waterproof rating makes this DMM capable of even the harshest conditions. Wireless USB interface and included logging software allow for computer based live data logging whilst keeping your computer completely isolated and protected.

- IP67 Waterproof
- True RMS
- Wireless USB Interface
- PC Logging Software
- Auto Power-Off
- Backlight
- Non-Contact Voltage
- Data Hold
- Diode Test
- Autoranging
- Audible Continuity
- 10A Current Range
- Double Moulded Case

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	QM1571
Display	4000 count
Measurement Cat.	Cat IV 600V
Basic VDC Accuracy	0.500%
DC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 1000V (± 0.8%)
DC Current	4mA, 40mA, 400mA, 10A (± 1.2%)
AC Current	4mA, 40mA, 400mA, 10A (± 1.8%)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ (± 0.8%)
Capacitance	4nF, 40nF, 4µF, 40µF, 100uF (±3%)
Frequency	4kHz, 40kHz, 400kHz, 4MHz 10MHz (±1.5%)
Inductance	-
Temperature	-20°C to +760°C (±3.0%)
AC Rectification	True RMS
Input Impedance	10M
Special Features	Wireless USB, IP67, True RMS, non-contact voltage
Battery / Fuse	9V / F10A/1000V, F500mA/100V (all included)
Dimensions	170(H) x 79(W) x 50(D)mm

This meter includes QUALITY Test Leads

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1571	$159.00	$142.90	$126.90

BLUETOOTH® TRUE RMS DIGITAL MULTIMETER

A stunning example of multimeter performance, with a rugged waterproof case to boot! Full auto ranging with high accuracy 6000 count display, as well as advanced math functions. All the usual features like data hold, temperature, capacitance, and a few not-so-common features like duty cycle measurement. Bluetooth® connectivity provides a host of advanced monitoring and data logging functionality without fuss.

- Bluetooth® wireless
- True RMS
- 6000 count
- Cat IV 600V
- IP67 waterproof case
- Large backlit display
- Duty cycle measurement
- Relative measurement
- Min / max / avg functions
- Frequency measurement
- Capacitance
- Full autoranging

LIFE
LIFETIME GUARANTEE

Bluetooth®

SPECIFICATIONS	QM1578
Display	6000 count
Measurement Cat.	Cat IV 600V / Cat III 1000V
Basic VDC Accuracy	0.500%
DC Voltage	600mV, 6V, 60V, 600V, 1000V (± 0.9%)
AC Voltage	6V, 60V, 600V, 1000V (± 1.0%)
DC Current	60µA, 6000µA, 60mA, 600mA, 10A (± 1.0%)
AC Current	600µA, 6000µA, 60mA, 600mA, 10A (± 1.0%)
Resistance	600Ω, 6kΩ, 60kΩ, 600kΩ. 6MΩ, 60MΩ (± 1.5%)
Capacitance	60nF, 600nF, 6µF, 60µF, 600µF, 6000µF (± 5.0%)
Frequency	0.001Hz, 1kHz, 10kHz (± 1.0%)
Inductance	-
Temperature	-20°C to 760°C / -4°F to 1400°F (± 1.0%)
AC Rectification	True RMS
Input Impedance	10M
Special Features	True RMS, duty cycle, IP67 case, Bluetooth® connectivity
Battery / Fuse	F10A 1000V,
Dimensions	170(H) x 75(W) x 48(D)mm

This meter includes QUALITY Test Leads

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1578	$219.00	$196.90	$174.90

For next day delivery, or Click and Collect, see page 5

Analogue Multimeter

ANALOGUE MULTIMETER

Digital multimeters have almost completely taken over, but there are those who prefer to use the old analogue meter - it's still the best way to test a capacitor. This well-made meter has audible continuity and a transistor leakage test, in addition to the normal set of functions. Have a closer look at this meter. It's a beauty.

- Holster Included
- Audible Continuity
- 20KΩ/Volt

LIFE
LIFETIME GUARANTEE

THIS IS THE NICEST ANALOGUE METER WE HAVE EVER SEEN

SPECIFICATIONS	QM1020
Display	Analogue
Basic Vdc Accuracy	3.000%
DC Voltage	100mV, 500mV, 2.5V, 10V, 50V, 250V, 1000V (±3.0%)
AC Voltage	10V, 50V, 250V, 1000V (±4.0%)
DC Current	50µA, 2.5mA, 25mA, 250mA (±3.0%)
Resistance	2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (±3.0%)
AC Rectification	Average
Input Impedance	10M
Special Features	dB, continuity buzzer.
Dimensions	150(L) x 100(W) x 35(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1020	$36.90	$33.20	$29.50

Speciality Meters

MULTIFUNCTION ENVIRONMENT METER WITH DMM

A multi-function environment meter that combines the functions of a sound level meter, light meter, humidity meter and temperature meter. Typical sound applications include checking acoustics of recording studios, auditoriums and professional hi-fi installations. The light and humidity meters are ideal for video photographers, greenhouse and hydroponic setups, etc. Others who should find this meter essential include interior designers, factory and office managers, record and archive keepers, schools, hospitals, laboratories and, of course, universities.

- Sound Level Meter
- Light Level Meter
- Indoor Temperature & Humidity Measurement
- Non Contact Voltage

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	QM1594
Display	4000 count
Measurement Cat.	Cat IV 600V
Basic Vdc Accuracy	0.500%
DC Voltage	400mV, 4V, 40V, 100V, 250V (± 1%)
AC Voltage	400mV, 4V, 40V, 100V, 250V (± 1.2%)
DC Current	400µA, 4mA, 40mA, 400mA, 10A (± 1%)
AC Current	400µA, 4mA, 40mA, 400mA, 10A (± 1%)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (± 0.8%)
Capacitance	50nF, 500nF, 5µF, 50µF, 100uF (±3.5%)
Frequency	5Hz, 50Hz, 500Hz, 5kHz, 500kHz, 10MHz (±1.5%)
Inductance	-
Temperature	-20°C to 750°C (±1.2%)
AC Rectification	Average
Input Impedance	10M
Special Features	LUX, SPL, Humidity
Battery / Fuse	9V / F10A/600V, F500mA/600V (all included)
Dimensions	170(H) x 78(W) x 48(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1594	$159.00	$142.90	$126.90

Speciality Meters CONTINUED

DMM WITH NETWORK CABLE TESTER

This innovative device is ideal for network installers or technicians & will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, & continuity etc. without needing to carry two separate devices. The unit will check for cable continuity, opencircuits, short-circuits, & cross-connects etc. A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator & multimeter leads.

- Autoranging
- LAN Cable Tester
- Diode Test
- Multimeter Functions
- Audible Continuity
- Case Included
- LAN Tester Checks Faults & Missed Wired Conductors
- Manual Or Automatic Testing

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	XC5078
Display	2000 count
Measurement Cat.	Cat III 600V
Basic Vdc Accuracy	0.500%
DC Voltage	200mV, 2V, 20V, 200V, 600V (±0.5%)
AC Voltage	200mV, 2V, 20V, 200V, 600V (±1.2%)
DC Current	2mA, 20mA, 200mA (±1.5%)
AC Current	2mA, 20mA, 200mA (±2.0%)
Resistance	200Ω, 2kΩ, 20KΩ, 200kΩ, 20MΩ (±0.8%)
AC Rectification	Average
Input Impedance	10M
Special Features	Data hold, max hold
Battery / Fuse	9V / 2 x AAA / F200mA/250V (all included)
Dimensions	162(L) x 74.5(W) x 44(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 4+	Qty 10+
XC5078	$99.90	$89.90	$79.90

CAT III INSULATION TESTER/MULTIMETER

Commonly known as a megger and suitable for high voltage insulation testing up to 4 gigaohms at up to 1000V. It also has AC/DC voltage and low resistance multimeter functions. Moulded storage case and holster included.

- Analogue/Digital Display
- Data Hold
- Max/Min
- Moulded Case
- Backlit LCD
- Auto Power-Off
- Requires 6 X AA Batteries

LIFE
LIFETIME GUARANTEE

SPECIFICATIONS	QM1493
Display	4000 count
Measurement Cat.	Cat III 1000V
Basic VDC Accuracy	0.800%
DC Voltage	1000V (± 0.8%)
AC Voltage	750 (± 1.2%)
DC Current	-
AC Current	-
Resistance	400Ω (± 1.5%)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
AC Rectification	-
Input Impedance	-
Special Features	Insulation Resistance 4M, 40M, 400M, 4000M (± 2%), Continuity Test, Bargraph, Backlit, Data hold, Analogue Bargraph
Battery / Fuse	6 x AA (included)
Dimensions	200(L) x 92(W) x 50(D)mm

This meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1493	$289.00	$259.00	$229.00

For next day delivery, or Click and Collect, see page 5

Clamp Meters

CAT III 600V TRUE RMS AC AND DC CLAMP METERS

- True RMS
- Capacitance
- Temperature
- Relative Measurement
- Backlight
- Max. Value
- Data Hold
- Resistance
- Frequency Measurement
- Non-Contact Voltage Testing
- Input Impedance: 10MΩ
- Basic VDC Accuracy: 0.5%
- 72(W) x 194(H) x 35(D)mm
- Carry case included
- 3 x AA Battery Required

600A TRUE RMS AC

- AC Current - 600A

Ideal for basic AC current measurement. Compact unit at a great price.

QM1630

LIFETIME GUARANTEE

600A TRUE RMS AC/DC

- DC Current - 600A
- AC Current - 600A

Includes DC current measurement with high accuracy, from a compact unit. This is a price breakthrough for a DC-current capable clampmeter!

QM1632

LIFETIME GUARANTEE

1000A TRUE RMS AC/DC

- DC Current - 1000A
- AC Current - 1000A

Fantastic features at an an amazing price. Ultra-high current 1000A AC and DC current measurement.

QM1634

LIFETIME GUARANTEE

SPECIFICATIONS	QM1630	QM1632	QM1634
Display	4000 count	4000 count	6000 count
DC Voltage	400mV, 4V, 40V, 400V, 600V (±0.5%)	400mV, 4V, 40V, 400V, 600V (±0.5%)	600mV, 6V, 60V, 600V, 1000V (±0.5%)
AC Voltage	400mV, 4V, 40V, 400V, 600V (±0.8%)	400mV, 4V, 40V, 400V, 600V (±0.8%)	600mV, 6V, 60V, 600V, 750V (±0.8%)
DC Current	-	40A, 400A, 600A (±2.5%)	60A, 600A, 600A, 1000A (±2.5%)
AC Current	40A, 400A, 600A (±2.5%)	40A, 400A, 600A (±2.5%)	60A, 600A, 600A. 1000A (±2.5%)
Resistance	400Ω, 4KΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (±1.0%)	400Ω, 4KΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (±1.0%)	600Ω, 6kΩ, 60kΩ, 600kΩ, 6MΩ, 60MΩ (±1.0%)
Capacitance	10nF, 100nF, 1μF, 10μF, 100μF, 1mF, 10mF, 100mF (±4.0%)	10nF, 100nF, 1μF, 10μF, 100μF, 1mF, 10mF, 100mF (±4.0%)	10nF, 100nF, 1μF, 10μF, 100μF, 1mF, 10mF, 100mF (±4.0%)
Frequency	10Hz. 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz (±0.5%)	10Hz. 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz (±0.5%)	10Hz. 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz (±0.5%)
Temperature	-20 to 1000°C / 0 to 1800°F (±5.0%)	-20 to 1000°C / 0 to 1800°F (±5.0%)	-20 to 1000°C / 0 to 1800°F (±5.0%)

These meter includes QUALITY Test Leads

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1630	$56.90	$50.90	$44.90

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1632	$99.90	$89.90	$79.90

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1634	$149.00	$133.90	$118.90

Multimeter Accessories

FAST ACTING CARTRIDGE FUSES

FOR USE IN MULTIMETERS

Used in many well-known multimeters including Listed by Underwriters Laboratories and certified by CSA. Fast acting fuse designed for use in circuits with high AC fault current capacity.

600V 15A (SUITES FLUKE) Cat. SF2274

600V 1A (SUITES FLUKE) Cat. SF2276

Spare ferrule fuses for our IP67 CAT IV rated DMMs:

1000V 500MA 3AG Cat. SF2278

1000V 800MA 3AG Cat. SF2279

1000V 10A Cat. SF2277

Spare fuses for selected Digitech DMM:

600V 500MA M205 Cat. SF2269

500V 10A 3AG Cat. SF2272

Note: Not stocked in all stores, but can be ordered.

SF2274

SF2278

SF2272

SF2279

SF2276

Suits Fluke DMMs

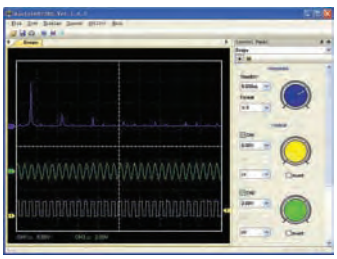
Size(mm)	Current	Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
20 x 5.0	0.5A	600V	SF2269	$4.80	$4.30	$3.80
32 x 6.3	0.5A	1000V	SF2278	$11.90	$10.70	$9.50
32 x 6.3	0.8A	1000V	SF2279	$11.90	$10.70	$9.50
35 x 10	1A	600V	SF2276	$10.90	$9.50	$8.50
32 x 6.3	10A	500V	SF2272	$11.90	$10.70	$9.50
38 x 10	10A	1000V	SF2277	$17.90	$15.90	$14.30
38 x 10	15A	600V	SF2274	$21.90	$19.30	$16.90

USB Oscilloscope

20MHZ USB OSCILLOSCOPE

This unit does away with more of the hardware and provides a highly accurate interface to allow software to provide the display. It still provides 20MHz bandwidth and high accuracy and physical probe couplings, but takes up a fraction of the bench-space. Use the included software to provide just about all standard oscilloscope functions, and even output waveforms to excel/word files. Convenient function in a small form factor, ideal for the traveling or compact workbench.

- USB interface plug & play
- Automatic setup
- Waveforms can be exported as Excel/Word files
- Spectrum analyser (FFT)
- Cursor measurements



1 YEAR WARRANTY

SPECIFICATIONS	QC1929
Channels	2
Input Impedance	1MΩ
Bandwidth	20MHz
Sampling Rate	48M Sa/Sec
Input Coupling	DC
Max Input Voltage	±5V
Triggers	Rising edge falling edge
Trigger Modes	Auto, Normal, Single
Math Operations	Add / subtract / multiply / divide / FFT
Sensitivity	20mV/div - 5V/div
Resolution	8bit
DC Accuracy	+/- 3%
Operating System	Windows XP/Vista/7/8/10
Dimensions	206(W) x 123(D) x 37(H)mm
Weight	375g
Accessories	2 x 10:1 probes, software, USB cable

	Cat.	Qty 1+	Qty 2+	Qty 5+
20MHz USB Oscilloscope	QC1929	$229.00	$199.00	$179.00

Mark Martino likes to

think. possible.

"Music Technology will evolve rapidly over the next 10 years. Roli keyboards have have changed the way we play keyboards. The 5 dimension playing technology has allowed keyboard players to play like wind and string players. The advancement in guitar, wind and percussion technology has allowed musicians more playing freedom."

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

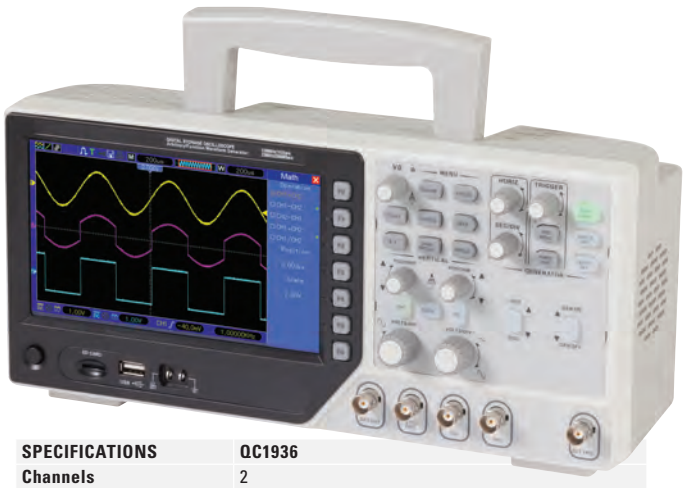
Digital Storage Oscilloscopes

100MHZ DUAL CHANNEL OSCILLOSCOPE WITH DIGITAL STORAGE

This is a lightweight and compact unit featuring a large 7-inch colour-LCD for detailed readings. It also includes a waveform generator for various testing applications. By connecting to it to your computer via the provided USB cable, you can use the included software for even greater control and data storage options.

- Two channel
- High accuracy
- Powerful Trigger
- Independent Waveform generator
- Synchronized signal Output/Input
- USB host and device connectivity
- Support SD card

See website for full specifications.



SPECIFICATIONS	QC1936
Channels	2
Bandwidth	100MHz
Sampling Rate	1G Sa/Sec
Input Coupling	AC / DC / GND
Max Input Voltage	CAT II 300VRMS AC/DC Max
Triggers	Edge, Video, Pulse Width, Pulse, Slope, Over time, Alternative
Trigger Modes	Auto, Normal, Single
DC Accuracy	+/- 3%
Data Record Function	Yes
Memory Depth	40K
DISPLAY	
Type	7" colour TFT LCD
Resolution	800 x 480
Contrast	Adjustable
Graticule	8 x 16 div
VERTICAL	
Sensitivity	2mV - 5V/div
Resolution	8 bit
Rise time	3.5ns
Mathematical operations	Add / subtract / multiply / divide / FFT
FFT	Hanning, Flattop, Rectangular, Bartlett, Blackman
HORIZONTAL	
Time Base	4ns/div to 40s/div
WAVEFORM GENERATOR	
Frequency range	1Hz-25MHz
Waveforms	Sine, Square, Ramp, Trapezium, AM/FM, Arbitrary, Exponent
Resolution	12 bits
Depth	4KSa

	Cat.	Qty 1+	Qty 2+	Qty 5+
100MHz Dual Channel Oscilloscope	QC1936	$999.00	$899.00	$799.00

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Test Equipment Accessories

PROBE K TYPE THERMOCOUPLE

This plug in thermocouple probe allows you to measure external temperature readings on DMMs. It will measure from below minus 50°C to above 250°C depending on the DMM it is used with. Suitable for gas and liquid, both with good accuracy of 0.75%.

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1282	$17.90	$15.90	$14.30

MULTIMETER CARRY CASE

Hard wearing and good looks make this multimeter case perfect for protecting your valuable multimeter from harm. With foam lining to cushion the meter, it zips up tight guarding it from dirty, dusty conditions

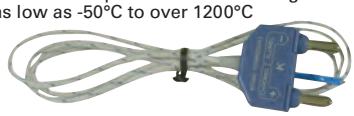
- Dimensions: 190(L) x 125(W) x 45(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
HB6361	$8.90	$7.90	$6.90

WIRE TYPE K THERMOCOUPLE WITH TWIN BANANA PLUGS

Similar to our other thermocouples, this one is fitted with banana plug terminations but does not have a "probe" assembly. The thermocouple junction will measure over a wide range of temperature but this will depend on the DMM used.

- Typical thermocouple measurement range from as low as -50°C to over 1200°C



Cat.	Qty 1+	Qty 3+	Qty 6+
QM1284	$15.90	$14.30	$12.70

RETRACTABLE 3M ALLIGATOR TEST LEAD SET

Set of 3 heavy duty leads in red, black, and green terminated with insulated alligator clips in a handy retractable reel. 3m in length, it is ideal for testing and troubleshooting electronic systems by connecting from components in machinery to test equipment or bypassing long wiring to isolate a fault.

- Rating when wound: 6A
- Rating when unwound: 10A
- Lead Length: 3m
- Reel Dimensions: 152(Dia) x 20(W)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
WT5334	$36.90	$33.20	$29.50

WIRE TYPE K THERMOCOUPLE

This is essentially the same as the probe type shown on this page, except that the sensor is mounted on the end of the cable - no probe. Suits digital multimeters. Measures from below minus 40°C to over 1200°C , actual range depends on the DMM its used with.

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1283	$15.90	$14.30	$12.70

JUMPER LEAD KITS

STANDARD

Ideal for connecting devices for testing. Alligator clip size is approx 40mm, jaw opening is about 8mm and cable length is approx 400mm.

- 10 leads supplied 2 of each colour

HEAVY DUTY

This kit has large alligator clips and heavy cable. The alligator clips are approximately 50mm long, and have jaw openings of about 10mm. Cable length is approx 300mm.

- 10 leads supplied, 2 of each colour

	Cat.	Qty 1+	Qty 10+	Qty 50+
Heavy Duty	WC6020	$15.90	$14.30	$12.70
Standard	WC6010	$8.90	$7.90	$6.90

Oscilloscopes Probes

OSCILLOSCOPE PROBE - 10 :1 / 1:1

Passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1MΩ shunted by 20pF. It may be compensated for use with instruments having an input capacitance of 15 to 35pF. The probe incorporates a three-position slide switch in the head, which selects attenuation of x1, x10 or a ground reference position. This probe suits all of the oscilloscopes in our range. Supplied with sprung hook, channel identifier clip, ground lead, insulating tip, IC tip and adjusting tool.

POSITION REF
PROBE TIP GROUNDED VIA 9M-Ω RESISTOR, OSCILLOSCOPE INPUT GROUNDED.

SPECIFICATIONS	POSITION X10	POSITION X1
Attenuation Ratio	10:1	1:1
Bandwidth	DC to 100MHz	
Rise Time	3.5ns	
Input Resistance	10MΩ when used with oscilloscopes with 1MΩ input	1MΩ (oscilloscope input resistance)
Input Capacitance	14pF (approx.)	
Compensation Range	10 to 35pF	
Working Voltage	300VDC incl. Peak AC derating with frequency	600V incl. Peak AC derating with frequency
Cable Length	1.4m	
Certification	Safety Meets IEC1010-1 Cat.I	

	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC1902	$47.90	$42.90	$38.40

Bench Voltmeter

ANALOGUE BENCH VOLTMETER 0-15V

A handy bench volt meter with analogue dial and banana plug connections. Reminiscent of the volt meters you might see in a school physics lab, this volt meter gives a quick and easy to read display of volts, and is ideal as a permanent fixture on a test bench, with a 15V maximum reading be suitable for automotive part testing.

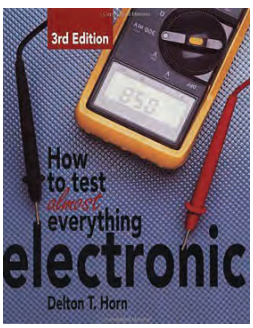
- Choose either 3V and 15V scales via separate banana plugs
- 3V scale reads -1V to 3V
- 15V scale reads -5V to 15V
- Zero offset adjust
- Analogue movement
- Internal resistance: 3kΩ (3V scale) 12kΩ (15V scale)

	Cat.	Qty 1+	Qty 3+	Qty 6+
Bench Voltmeter	QP5040	$22.90	$20.90	$17.90

HOW TO TEST ALMOST EVERYTHING ELECTRONIC

Electronics is a unique science - everything that's going on has to be deduced from visible symptoms and effects with very little that is actually physically observable. The book covers everything from setting up a test and work area to using the most important types of test equipment - multimeters, oscilloscopes, signal generators, signal tracers, capacitance meters and frequency counters. It also covers testing and measurement methods, fault finding without circuit diagrams, component testing and some highly specialised measurement in applications such as audio and TV. A comprehensive volume that should be on every technical bookshelf.

- Softcover 326 pages 190 x 130mm



	Cat.	Qty 1+
	BM7200	$59.90

monthly specials & promotions
Lookout for our monthly promotions in store and online.

Test & Jumper Leads

PARROT™ CLIP LEADS

The Parrot™ Clip is the only test probe that provides both clip-on hands free contact as with an EZ-hook and normal point contact like a test probe. These feature a sprung hook, which is soldered directly to the lead and housed inside a round metal tube. The grip is performed between the 2 metal parts, which can be used as pincers if required. Probes are supplied with 1m leads terminated to banana plugs and are fully insulated to 1000V.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5330	$29.90	$26.90	$23.70

MULTIMETER PROBE ALLIGATOR CLIPS

Turn your DMM probes into clips! These alligator clips simply push onto the end of the test probes!

- Length approximately 55mm
- Jaw opening 8mm
- Sold as a pair - 1 red, 1 black

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5220	$4.90	$4.10	$3.70

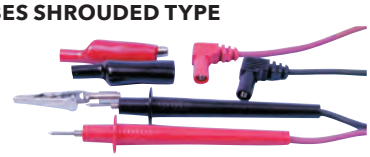
16 PIECE TEST LEAD SET

Consists of two leads with screw sockets on each end. Attachments screw in. All colour coded red and black.

- 4 x alligator clips
- 4 x 2mm pin tips
- 4 x banana plugs
- 2 x spade lugs

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5218	$11.90	$10.70	$9.50

MULTIMETER TEST PROBES SHROUDED TYPE



- Banana plugs are right angle with 15mm covered pin
- Alligator clips included

	Cat.	Qty 1+	Qty 3+	Qty 6+
Shrouded Type	WT5325	$17.90	$15.90	$13.90

2MM TEST PROBES FOR MULTIMETERS

- Sold as a pair

	Cat.	Qty 1+	Qty 3+	Qty 6+
Black / Red	PP0425	$4.50	$3.90	$3.60

MULTIMETER TEST PROBES

With 4mm right angle unshrouded banana plugs.

- Length 930mm
- Suits QM1500, etc.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5316	$5.90	$5.20	$4.70

CAT IV TEST LEAD SET

CAT IV Test Lead Set with straight banana plugs.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5333	$15.90	$14.30	$12.70

HIGH QUALITY BANANA PIGGYBACK TEST LEADS

A set of factory-moulded piggy-back style banana plugs, each connected by one metre of high-quality, ultra-flexible 500VDC, 12A rated cable.

- Contains 2 x black, 2 x red and 1 each of blue, yellow and green leads - 7 in all

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5326	$36.90	$33.20	$29.50

TEST LEADS

Banana plugs to clip. There are many situations where multimeter probes are difficult to use.

- Length: 700mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT5320	$7.90	$7.20	$6.50

EZ HOOK TEST CLIPS - 40MM

Suitable for ICs, transistors, PC pins, etc. Push syringe action. Hirshmann style.

	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	HM3036	$2.50	$1.80	$1.60
Black	HM3037	$2.50	$1.80	$1.60

IC TEST CLIPS

These have a syringe action and are ideal for working with small components. Length 57mm.

	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	HM3040	$2.50	$2.00	$1.80
Black	HM3041	$2.50	$2.00	$1.80

PROFESSIONAL CAT IV MULTIMETER PROBES

Professional multimeter test probes have always been an expensive choice so what we've done is work closely with a manufacturer to get great quality probes at a genuinely affordable price! To start with, we've made them extra long; they're 1200mm long so you don't drag your meter across your workbench as you move around a circuit and makes them perfect for bench top meters. They're Cat IV rated for safety, feature finger guards and can handle 20A of current. The best part is the actual probes themselves. To start with, the probes are suitable for inserting into a standard 4mm banana socket using the same spring hold system. Also included are probe covers which not only stop the sharp points being dangerous, they allow only just the tip to be exposed for delicate work where you can be in danger of making a short between two connections which are close together.

- Extra long 1200mm
- 600V Cat IV rated
- 20A current rating

Probes suitable for inserting (and holding) in 4mm banana sockets. Probe safety cover with slot for delicate work. Comfortable and ergonomic grip. Sold as a pair.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pair	WT5338	$26.90	$24.20	$21.50

ALLIGATOR CLIPS

- Sold as a pair
- 1 x red & 1 x black

		Cat.	Qty 1+	Qty 10+	Qty 50+
26mm	Pair	HM3020	$1.90	$1.60	$1.40
32mm	Pair	HM3022	$2.50	$2.00	$1.80

ALLIGATOR CLIPS WITH SCREW

No soldering required. Large alligator clips with plastic finger grips and a screw for connection.

- Length: 55mm
- Max jaw opening 12mm
- Sold as a pair or singly

	Cat.	Qty 1+	Qty 10+	Qty 50+
Alligator Clips with Screw	HM3025	$2.90	$2.60	$2.30

p.53 - alligator clip jumper leads

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

For next day delivery, or Click and Collect, see page 5

Non-Contact Thermometers

ECONOMY THERMOMETER

- Built-in laser pointer
- Wide temperature range
- 8:1 Distance to spot ratio
- Auto data hold
- Carry case included

1 YEAR WARRANTY

Safely measure temperature in hard to reach places, hot or hazardous areas using the built-in laser pointer to target the surface. Compact and easy to use, the thermometer can provide several readings within seconds. Backlighting illuminates the LCD display for taking measurements at night or in low light areas. Carry case included.

NON-CONTACT THERMOMETER WITH DUAL LASER TARGETING

- Laser pointing targeting
- Wide temperature range
- 12:1 Distance to spot ratio
- Backlit LCD
- Holster Included

1 YEAR WARRANTY

Measure the temperature of any surface from a safe distance with this compact sized non-contact thermometer. With a wide temperature range and laser targeting, this portable instrument is easy to use for quick and accurate temperature checking of any surface. With a 12:1 distance to spot size, you can get the temperature of almost the exact spot in most cases. With the backlight, the temperature can be read in low light conditions.

PROFESSIONAL HIGH TEMPERATURE THERMOMETER

1 YEAR WARRANTY

- Supplied in a robust blow-moulded case
- Wide temperature range
- 30:1 distance to spot ratio
- Backlit LCD
- Auto data hold
- Professional grade

This professional infrared thermometer allows you to measure high temperatures with safety. With a range of -50 to 1000o Celsius, it's suitable for lab, furnace, forge and small-scale foundry work. The laser pointer allows for accurate placement of the measurement point and the 30:1 distance-to-target ratio allows for accurate measurement from greater distances. The unit can be mounted on a tripod with trigger lock for unattended min/max logging.

- Supplied in a robust blow-moulded case

SPECIFICATIONS	QM7215	QM-7221	QM7226
Display	3 digit	3.5 digit	4.5 digit
Optical Resolution	8:1	12:1	30:1
Temperature	-30°C to 260°C / -22°F to 500°F	-50°C to 650°C / -58°F to 1202°F (±1%)	-50°C to 1000°C / -58 to 1832°F (±1.5%)
Emissive	Fixed to 0.95	Adjustable 0.10 to 1.0	Adjustable 0.10 to 1.0
Sampling Rate	< 1s	6.7Hz	1Hz
Special Features	Built-in laser pointer, auto data hold, back light, min/max record, over range indicator	Dual laser targeting, dual display, automatic data hold, back-light, trigger lock, max hold, high/low alarm	Laser targeting, automatic data hold, dual display, back light, trigger lock, min / max / dif / avg record, high / low alarm.
Battery	1 x 9V	1 x 9V	1 x 9V
Dimensions	131(H) x 96(W) x 35(D)mm	146(L) x 104(W) x 43(D)mm	230(L) x 120(W) x 56(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM7215	$74.90	$67.40	$59.90

Cat.	Qty 1+	Qty 3+	Qty 6+
QM7221	$169.00	$151.90	$134.90

Cat.	Qty 1+	Qty 3+	Qty 6+
QM7226	$299.00	$269.00	$239.00

MINI NON-CONTACT IR IP67 THERMOMETER

Ultra compact, non-contact thermometer. IP67 rated so is ideal for industrial and lab applications. LCD readout gives temperature in Celsius or Fahrenheit.

- Batteries & lanyard included

SPECIFICATIONS	QM7218
Temperature	-33°C to 110°C (-27 to 230°F)
Accuracy	2.5°C
Distance To Spot Ratio	1:1
Response Time	1 second
Size	82(L) x 17)Dia)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
QM7218	$42.90	$38.60	$34.30

DIGITAL THERMOMETER WITH K-TYPE THERMOCOUPLE

- LCD
- Pocket Size
- Wide Temperature Range
- Thermocouples included
- Battery included

A handy pocket-size digital thermometer, suitable for the lab, workshop or in the field. It features an excellent measurement range from -50 to 750°C and a hold function to lock the reading on the display.

1 YEAR WARRANTY

SPECIFICATIONS	QM1602
Display	2000 count
Temperature	-50°C to 750°C (±1%)
Sampling Rate	2.5Hz
Special Features	Data hold
Battery	2 x AA (supplied)
Dimensions	118(L) x 70(W) x 29(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1602	$49.90	$44.90	$39.90

tech talk — Distance To Spot Ratio Explained

Distance to spot ratio is the ratio of the distance of the Thermometer to the object being measured, and the diameter of the temperature measurement area. The larger the ratio number the better the resolution.

Probe Thermometers

LCD PROBE THERMOMETER

- Pocket clip
- Stainless steel probe
- 150mm long

Multi-purpose digital thermometer for the kitchen, lab, factory, workshop or barbeque. It measures in Celsius and Fahrenheit and fits in a pocket.

SPECIFICATIONS	QM7314
Temperature	-50°C to 120°C , -58°F to 248°F
Accuracy	+/-1°C
Length	150mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM7314	$13.90	$12.50	$11.10

DIGITAL STEM THERMOMETER

- Requires LR44 battery (included) / 5000 hour battery life
- 205mm long

Endless applications such as food processing, laboratory work, photography, home brewing etc. This digital thermometer features fast response, min/max memory, data hold and automatic shut-off after 10 minutes. The probe is stainless steel, so it will never corrode, the body is splashproof and it will never need calibration.

SPECIFICATIONS	QM7216
Temperature	-50°C to 200°C / -58°F to 392°F
Accuracy	±1°C , ±2°F
Display Resolution	0.1o
Sampling Rate	Every 07 seconds

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM7216	$36.90	$33.20	$29.50

THERMOCOUPLE THERMOMETER - 2 INPUT

- Auto power off & backlit LCD
- Max and hold function
- Celsius & Fahrenheit
- Holster included
- Thermocouples included

1 YEAR WARRANTY

Fast response and laboratory accuracy, works with K-type thermocouples and offers 0.1 or 1o userselectable resolution over the entire measurement range. You can monitor two separate temperatures or use the differential function to compare them.

SPECIFICATIONS	QM1601
Display	2000 count
Temperature	-50°C to 1300°C (-58°F to 2000°F)
Special Features	Back light, data hold, max hold
Battery	1 x 9V
Dimensions	172(L) x 84(W) x 42(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1601	$119.00	$106.90	$94.90

USB Temperature / Humidity Dataloggers

A must for anyone involved with food preparation, archiving or storage or applications where storage of environment information is important. These USB dataloggers log temperature and humidity readings and store them in internal memory for later download to a PC. The measurement interval is adjustable - you simply set up the recording parameters then download the data when you need it. The data is recorded at the prescribed intervals and will alert you if preset min/max levels are exceeded. Countless applications including greenhouses, museums, warehouses, container storage, photography, archives, food preparation etc.

DIRECT PLUG IN TYPE

- Easy USB interface
- Mounting bracket included
- 32000 sample memory (16000 temp, 16000 humidity)
- Software compatible with Windows 2000, XP, Vista

SPECIFICATIONS	QP6013
Range	-40°C to 70°C (-40°F to 158°F), 0 - 100% relative humidity
Accuracy	Humidity ±3%, Temperature ±1°C
Resolution	Humidity 0.1%, Temperature 0.1°C
Memory	3200 samples
Battery Life	5 sec rate: 12 months, 10 sec rate: 2.5 years
Dimensions	100(L) x 22(W) x 20(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Direct Plug In Type	QP6013	$149.00	$134.90	$119.90

USB / LCD READOUT TYPE

- 32,700 sample memory
- Adjustable measurement cycle
- Analysis software included
- Software compatible with Windows 2000, XP, Vista

SPECIFICATIONS	QP6014
Range	-40°C to +70°C (-40°F to 158°F), 0 - 100% relative humidity
Accuracy	Humidity ±3%, Temperature ±1°C
Resolution	Humidity 0.1%, Temperature 0.1°C
Memory	32,700 samples
Measurement Cycle	1s - 24h
Dimensions	95(L) x 50(W) x 32(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
USB / LCD Readout Type	QP6014	$199.00	$178.90	$158.90

Fridge Thermometers

DIGITAL FRIDGE/FREEZER LCD MINI THERMOMETER

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet. Stylish design with white face and silver colour surround.

SPECIFICATIONS	QM6323
Selectable	°C / °F
Digit Height	23mm
Temperature Range	-19°C to 49°C
Batteries	1 CR2025 included
Dimensions	68(L) x 44(H) x 12(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM6323	$11.90	$10.70	$9.50

DIGITAL THERMOMETER FOR FRIDGE OR FREEZER

Simply attach the sensor in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed Velcro strip. Set your preferred reading of °C or oF and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem. 1m cable.

- Shows room temperature at the touch of a button

SPECIFICATIONS	QM7209
Room Temp Range	-10°C to 50°C
Fridge Temp Range	-50°C to 70°C
Display Size	26(W) x 13(H)mm
Requires	1 x AAA battery (supplied)
Dimensions	67(W) x 39(H) x 15(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM7209	$29.90	$26.90	$23.90

For next day delivery, or Click and Collect, see page 5

Light Meters

DIGITAL LIGHTMETER

A handy digital lightmeter for photography, lab work, architectural, engineering and construction applications. It includes an integrated stand and will measure

- LCD
- 3.5 Digit
- Separate Photo Detector incident light in 4 ranges. The photo detector is wired on a curly cord which extends to 1 metre, allowing the user to take light measurements at the optimum position. Sensor cover and carry case included.

SPECIFICATIONS	QM1587
Display	2000 count
Range	200, 2000, 20000, 50000 lux/Fc
Accuracy	±5%±10d (<10,000 lux)
	±10%±10d (<10,000 lux)
Resolution	0.1lux/Fc
Sampling Rate	1.5Hz
Special Features	Data hold, max hold
Battery	1 x A23 (12V)
Dimensions	188(L) x 64(W) x 24.5(D)mm
Photo Detector	115(L) x 60(W) x 27(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1587	$74.90	$67.40	$59.90

PROFESSIONAL DIGITAL LIGHT METER

- Data Hold
- Relative Mode
- Auto Zeroing
- Long-Life Silicon Photo Diode Sensor
- Selectable Lux Or FC Scale
- Auto Power Off: 30 Minutes
- Max And Min Measurements

Light has an enormous impact on the atmosphere created in a room, office, foyer, retail shop, reception areas, or on film and photography. In some cases, a professionally lit servicescape may be the difference between business success and failure. Achieving the right amount of light is a fine art, and the help of a professional tool should be sought to ensure minimum lighting level standards are achieved. This professional light meter is brimming with features that should be part of every lighting technician's arsenal. It uses photopic spectral sensitivity which closely mimics the response of the human eye to changes in light. It is extremely accurate with a rapid response and can store min and max values for easy comparisons. Measurement can be switched between LUX and FC (foot candles) and a data hold function is included for pausing the reading. All this is output to an easy to read backlit LCD. A carry plastic case with handle is included for easy and safe transportation.

SPECIFICATIONS	QM1584
Display	4,000 count with 41 segment bargraph
Max Measurement	400,000 lux / 40.00 kFc
Spectral Response	CIE Photopic
Spectral Accuracy	CIE VA function f1 <=6%
Cosine Response	f2 <=2%
Accuracy	+/-5% +/-10d (<10,000 lux),
	=/-10% =/-10d (>10000 lux)
Accuracy For C.I.E Standard Illuminance	A(2856K)
Sampling Rate	1.5 times/second

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1584	$209.00	$187.90	$166.90

Other Test Equipment

POCKET MOISTURE METER - WOOD, BUILDING, ETC.

This is an intelligent wood moisture meter suitable for measuring water content in building materials and wooden fibre articles such as wooden and bamboo objects, cotton, paper etc. Simple to use, the unit comes with two-pin electrode which enables you to check thick wood at the core without having to cut it open. A must have for home/building inspectors, flooring specialist and general contractors. Carry case included.

- Backlit digital LCD screen
- Ergonomically designed with comfortable finger grip
- Low power consumption
- Auto power off

SPECIFICATIONS	QP2310
Electrode Length	8mm
Measuring Range	Woo: 6 to 44%, Material: 0.2 to 2.0%
Accuracy	Wood +/-2%, Material: +/-0.2%
Ambient Temperature	0 to +40°C
Ambient Humidity	0 to +85%rh
Battery	4 x LR44 (included)
Dimensions	96(H) x 40(W) x 20(D)mm, 83g

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pocket Moisture Meter	QP2310	$42.90	$38.60	$34.30

SOLAR POWER METER

Installing solar panels can result in a missed opportunity if they're not positioned optimally to catch the radiation from the sun. Similarly to a TV installer using a signal meter, you can use this device to find optimum locations on a rooftop (or wherever you're installing them) to help ensure they'll be efficient and generate as much of their rated power possible for your location. Expressed as either W/m² (Watts per square metre), or BTU/ft² (British thermal units per square foot). Measurement up to 1999W/m², or 634BTU/ft². With data hold and high accuracy, you can get rapid readings on the huge LCD. Includes carry case.

SPECIFICATIONS	QM1582
Range	0-1999W/m², 634BTU/ft²
Resolution	1W/m²; 1 BTU/ft²
Sampling Time	0.25 Seconds approx
Power	3 x AAA batteries (Included)
Dimensions	63(W) x 162(H) x 28(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Solar Power Meter	QM1582	$119.00	$106.90	$94.90

HAND HELD PH METER

A simple and accurate device for checking pH levels in water. The unit is equally valuable for keeping your fish tank at the proper pH level for optimum fish health or checking your swimming pool for the right balance. The meter is simple to use and the large liquid crystal display gives clear and precise readings that are much more accurate than messy chemicals. The unit has an extendable probe that can be adjusted to suit each application. The meter is supplied with a 9 volt battery, a bottle of pH 7.0 buffer solution and calibration tool.

SPECIFICATIONS	QM1670
Range	1 - 14 pH
Resolution	0.1 pH
Accuracy	±0.2 pH
Operating Temperature	0° - 50°C
Weight	120g
Dimensions	40(W) x 158(H) x 34(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Hand Held pH Meter	QM1670	$79.90	$71.90	$63.90
Buffer Solution (50ml)	QM1671	$10.90	$9.50	$8.50

Sound Level Meters

MICRO SOUND LEVEL METER

1 YEAR WARRANTY

- Very compact size
- Min / max hold
- Backlit

With a range of 40 - 130dB, this little meter is ideal for environmental, safety and sound system testing. It has a fast response time for transient measurements and is A-weighted for the frequency range of human hearing.

- Extremely small and price matches its size

DIGITAL FOR AN ANALOGUE PRICE!

SPECIFICATIONS	QM1591
Display	3 digit
Range	40 - 130 dB (±3.0dB)
Frequency Range	31.5Hz to 8kHz
Weighting	A weighted
Special Features	Pocket sized, min / max hold, back light
Battery	1 x 9V (included
Dimensions	128(L) x 51(W) x 32(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1591	$59.90	$53.90	$47.90

find out more in store

Our staff offer friendly and helpful service. We're here to help.

COMPACT DIGITAL SOUND LEVEL METER

1 YEAR WARRANTY

- Supplied with carry case and wind sock.
- Compact size
- Data hold
- Backlit
- Carry case

Featuring a wide dynamic range from 30 to 130dB, it can measure both A and C weightings to get the right response for the human ear and can have fast or slow responses to get an "ambient" reading or a short noise. Includes data hold and min/max functions, as well as tripod mount for prolonged use. Great for car audio installers, clubs and PA.

SPECIFICATIONS	QM1589
Display	3.5 digit
Range	30-130dB (±1.5dB)
Frequency Range	31.Hz to 8kHz
Weighting	AC selectable weighting
Response	Fast / slow selectable
Special Features	Max hold, data hold, back light
Battery	1 x 9V
Dimensions	210(L) x 55(W) x 32(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1589	$159.00	$142.90	$126.90

PRO SOUND LEVEL METER WITH CALIBRATOR

1 YEAR WARRANTY

- Compliant with Type 2 (Class 2) Standards
- A & C weighting scales
- Fast and slow response
- Tripod mounting thread
- External calibrator (included)
- Maximum hold feature
- Min/Max measurement
- AC & DC analogue outputs
- Tripod included
- Backlit LCD

Suitable where accuracy, repeatability or validation is required. This sound level meter also includes a calibrator so you can verify and authenticate your results. Scales for A and C weighting are included so it is ideal for vehicle noise testing, race scrutineering, traffic or aircraft noise testing or any evidence-based noise testing. Rugged and easy to operate for the garage environment, it also has both AC (1Vrms representation of the meters waveform) and DC (10mV/dB) analogue outputs so you can connect it to other equipment such as data-loggers, plotters, oscilloscopes etc.

**APPROVED TYPE 2 (CLASS 2)
THIS METER CONFORMS TO IEC 61672-1
CLASS 2 FOR SOUND LEVEL METERS.**

SPECIFICATIONS	QM1592
Display	3.5 digit
Accuracy	±1.4dB
Calibration	94, 114dB
Dynamic Range	50dB
Resolution	0.1dB
Update	Every 0.5 seconds
Frequency Range	31.5Hz - 8kHz
Dimensions	278(L) x 76(W) x 50(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1592	$459.00	$409.00	$359.00

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For next day delivery, or Click and Collect, see page 5

Automotive Test Equipment

SELF POWERED ROUND LED VOLTMETER 5-30VDC

Quite possibly the easiest way to monitor your battery voltage, or the voltage in any DC powered system. Simply wire up to a positive and negative DC power source of 5-30VDC, and the voltmeter tells you the voltage (taking power from the DC source to operate). Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.

- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
LED Voltmeter	QP5582	$29.90	$26.90	$23.70

PANEL/SURFACE MOUNT LED VOLTMETER & AMPMETER

Quite possibly the easiest way to monitor battery voltage and current draw on your van, RV or boat. Simply follow the included wiring diagram to measure 5-30VDC, and 0 to 10A DC. Supplied with a panel mount and a surface mount "hood". Connection is via three 6.3mm spade terminals (current shunt built-in).

- Volt/Current Meter: 36(Dia) x 40(D)mm
- Panel Mount: 60 (W) x 42 (H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Volt & Amp Meter	QP5584	$45.90	$40.90	$35.90

LED VOLTMETER 5-15VDC WITH BAR GRAPH

A quick and simple way to monitor the battery voltage in a vehicle, this voltmeter simultaneously shows the voltage numerically and on a bar graph. Simply wire up to a DC power source between 5-15VDC, and the blue LED voltmeter displays the voltage. The colour coded LED bar graph shows the voltage level on a scale from 11.3 to 13.2 volts, optimal for vehicle battery condition. Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.

- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Voltmeter	QP5589	$48.90	$43.90	$38.90

IN-CAR BATTERY MONITOR AND TEMPERATURE DISPLAY

Absolute plug and play - simply plug it into an available cigarette lighter socket and you're good to go! Whenever power is applied, it will provide you with battery / system voltage, and current temperature.

- Dual function display
- No installation required
- Bright LED screen
- Temperature Meter: 10 - 80°C +/- 0.1C
- LED: Blue+Red

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP2222	$22.90	$20.90	$17.90

BLUETOOTH® BATTERY MONITOR

A powerful intelligent battery monitor for smartphones. It's easy to install, simple connect to the battery terminals - that's it! Then install the free to download app on your favourite smartphone, for full real-time display, datalogging, as well as push notifications for low battery voltage warnings and more! Short circuit and reverse polarity protected for safety. Easy to use and convenient.

- Real-time battery monitoring
- Stores and displays historical data
- Tests: battery, cranking, charging, trip duration
- Automatic sync, alerts sent to mobile (free APP on iOS, Android)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP2265	$56.90	$50.90	$44.90

DUAL BATTERY LED VOLTMETER

Monitors two power sources at once - ideal for dual battery installations. Includes flush panel-mount and surface-mount hardware. Voltage range is 10-60VDC, so it's suitable for some higher voltage (eg, 48V) solar installations too, to potentially monitor PV and battery voltage simultaneously.

- Operating Voltage: 10-60VDC
- Dimensions: 49(D) x 35(Dia.)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x LED Voltmeter	QP5583	$33.90	$29.90	$26.90

CIGARETTE PLUG ALTERNATOR / BATTERY MONITOR

Having car batteries or alternators diagnosed and fixed can be unnecessarily expensive, both sit firmly in the realm of DIY. Replacing an alternator can cost up to $300, when in fact all that may need to be replaced is a $20 voltage regulator. This device will help you diagnose the source of your cars electrical problems and potentially save you a lot of money. It simply plugs into your car's cigarette lighter socket and will present you with alternator and battery status. For full specifications see our website.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Alternator/Battery Monitor	PP2142	$11.90	$10.70	$9.50

12V CAR VOLTAGE, ALTERNATOR & TEMPERATURE DISPLAY

Plugs into the car's cigarette lighter socket to display the car's battery voltage and inside temperature. An audible and visual alarm can be set to trigger when the car's battery voltage dips too low, which could save you from breaking down in the middle of nowhere with a dead car battery. The display features a tricoloured LED to show the battery status and electrical system status at a glance. Stylish modern design allows for easy dash mounting. Celsius or Fahrenheit temperature display.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Temperature Display	XC0117	$49.90	$44.90	$39.90

LOW VOLTAGE CIRCUIT TESTER 6, 12, 24 VOLTS

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground. Suitable for 6/12/24 volts for use on cars, trucks, boats, etc

p.245 wireless tester

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD2049	$4.90	$4.10	$3.70

AUTOMOTIVE MULTI-FUNCTION CIRCUIT TESTER WITH LCD

Designed to test the electrical system of an automotive vehicle running on 12V or 24V. One of the great features is being able to activate components with positive or negative without using a jumper wire. To top it all off the easy to read LCD is backlit so it's perfect for the dark crevices of an engine bay. All the features of a brand name unit at a fraction of the price. For full specifications see our website.

- Works on 12 or 24V systems
- Dimensions: 240(L) x 78(H) x 40(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1494	$79.90	$71.90	$63.90

Automotive Test Equipment CONTINUED

BATTERY, CHARGER & ALTERNATOR TESTERS

These handy devices quickly indicate the condition of your car or truck battery, charger or alternator. They use 3 LEDs to indicate battery and charge under engine on/engine off conditions. Compact and lightweight, they include 600mm leads with crocodile clips, and an inbuilt magnet to secure the unit while taking measurements.

- Dimensions: 120(L) x 33(W) x 20(D)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
QP2258	$15.90	$13.70	$12.30

SPECIALIST UNIVERSAL LCD BATTERY TESTER

Provides testing for most types of small rechargeable batteries, including a huge range of Lithium-based (LiFePo4, Li-Ion etc) batteries. You can test voltage, capacity, and internal resistance. Internal resistance is usually tied to the current charge level, however generally increases with a battery's age, it provides a good indication of battery health, most notably in Lithium-based rechargeable batteries. It also works with alkaline and various other non-rechargeable batteries.

- Tests over 11 types of batteries including cylindrical and button cells
- Test battery voltage, capacity (%), and internal resistance
- Weight: 161g (Includig Cables)
- Cable Length: 720mm
- Dimensions: 75(W) x 135(H) x 28(D)mm

See website for full specifications.

Cat.	Qty 1+	Qty 4+	Qty 10+
QP2260	$45.90	$40.90	$35.90

DIGITAL TACHOMETER

1 YEAR WARRANTY

This easy-to-use hand-held digital tachometer measures up to 99,999 RPM and features a large 5 digit LCD, laser pointer, low battery indicator, and memory recall for the last displayed value, minimum value, and maximum value. It also features a DC socket for mains power (5VDC at 50mA). It can also be switched to measure either actual RPM or total revolutions. Supplied with carry case and 600mm reflective tape marks.

SPECIFICATIONS	QM1448
Display	2000 count
Test Range	2.5 to 99,999 RPM
Basic DC Accuracy	0.5%
Sampling	0.5 sec (over 120RPM)
Range Select	Autoranging
Detection Distance	50 to 500mm
Power Consumption	50mA approx.
Batteries	4 x AA batteries (included)
Dimensions	160(H) x 72(W) x 37(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QM1448	$95.90	$86.50	$76.90

OBD2 ENGINE CODE READER

Modern car engines are controlled by computers which regulate engine performance. Sensors are connected to major components which constantly send data to the computer which then adjusts performance accordingly to ensure minimal emissions and optimal performance. Reading data from these computers helps mechanics pinpoint where problems may lie in car performance. You can also find out this information with this OBD2 engine code reader. It connects to your OBD2 port and will immediately intepret the information in the ECU (engine control unit). You can use this information to find faulty sensors which adversely affect performance, see if cylinders are misfiring, see how hot your engine coolant is, view engine RPMs and much more. Diagnosing and fixing certain problems yourself can save a lot of time and money. It's also fascinating to see how much engine information is readily available in modern cars. Viewable parameters*

- Vehicle Speed
- RPM
- Fuel Consumption
- Engine Coolant Temp
- Fuel Pressure

Bluetooth

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 4+
PP2145	$79.90	$71.90	$63.90

COMPACT TYRE PRESSURE GAUGE

Tyre wear is exaggerated when your tyre pressure isn't kept at the manufacturers recommendations. Now you can check your tyre pressure before you set off with confidence. Simply push onto the valve, press the button, and presto! Your pressure is displayed on the screen. It couldn't be easier!

- Air Pressure Units: psi, bar, kPa, kgf/cm^2
- Battery: 1 x LR44 Button Cell (Included)
- Dimensions: 42(W) x 98(H) x 26(D)mm, 48g

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
QP2285	$16.90	$14.90	$13.40

TYRE PRESSURE GAUGE WITH DEFLATION MONITORING

Keeping your tyre pressure in check is important for maximising the life of your expensive tyres. But if you're travelling on sand or muddy terrain, or 4WDing in general, you often want to reduce pressure in the tyres to maximise your overall footprint and stability. Sure, you can grab a stick and manually deflate the tyres, but who wants to do that! Use this gauge and it will show current pressure while it deflates, so you can stop at any time! Also helps prevent over-deflation of tyres! Also features a bright LCD and LED torch to help you see what you're doing.

- Measurement Range: 5-100psi
- Units of Measurement: psi, bar, kPa
- Batteries: 2 x CR2032 Button Batteries (Included)
- Dimensions: 33(W) x 150((H) x 36(D)mm, 81g

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
QP2287	$33.90	$29.90	$26.90

Circuit Tester

NON-CONTACT AC VOLTAGE PROXIMITY DETECTOR

About the size of a marking pen, this non-contact tester detects AC voltages from 200-1000V. Featuring red and green indicators, the unit will glow green when safe, and when voltage is detected it will flash red and beep at an increasing rate as you get closer to the voltage source. It can be used for detecting live mains in outlets, power boards or insulated wiring. It also has an LED torch and a handy pocket clip. A must for every toolbox

- Auto Power Off
- Flashlight function
- CAT III rated
- Green and Red LED indiciators
- Switchable audible and silent mode
- Includes 2 x AAA batteries
- Dimensions: 176(L) x 26(D)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 3+	Qty 6+
QP2268	$29.90	$26.90	$23.90

3-30VDC TESTER WITH VOLTAGE/POLARITY READOUT

Provides useful debugging and testing in many systems, most notably vehicles, boats, motorbikes, and other 6-24V systems. It provides an accurate voltage readout as well as polarity check. It's a more advanced version of a test-lamp used for decades in the automotive industry. Self powered from the test circuit.

- Tests powered-on circuits
- Works on 6V, 12V, and 24V systems
- Stainless steel testing probe

SPECIFICATIONS	QP2216
Working Voltage Range	3V-30V (±0.3V Accuracy)
Operating Current	12VDC < 70mA
Dimensions	228(H) x 30(Dia.)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
QP2216	$22.90	$20.90	$17.90

For next day delivery, or Click and Collect, see page 5

Distance Meter

MINI LASER DISTANCE METER - 20M

A laser distance meter makes light work of taking area measurements. No longer do you have to get a second pair of hands on the other end of a tape measure, while you find some eye-protection for the inevitable recoil when you're done! Providing measurements up to 20m, with an accuracy of just 1.5mm - that's probably less than the flex in the end-hook of a tape measure anyway! Resolution down to 1mm, it also provides the last 20 measurements. Works in metric or imperial measurements, and can even help you with your area and volume calculations! The weatherproof case helps you work in just about all conditions too.

- Up to 20m range
- Metric and imperial
- Area volume calculations
- Weatherproof IP54 case

SPECIFICATIONS	QM1626
Batteries	2 x AAA (included)
Range	0.05 to 20m
Accuracy	1.5mm
Resolution	1mm
History	20 Measurements
Units	m, in, ft
Laser Class	Class II 650nm, <1mW
IP Rating	IP54
Operating Temperature	-10° - 50°C
Battery Life	Up to 5000 Measurements
Weight	64g (excluding batteries)
Dimensions	37(W) x 100(H) x 24(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 4+
	QM1626	$79.90	$71.90	$63.90

Stud Detector

3 IN 1 STUD DETECTOR WITH LASER LEVEL

A stud detector which just doesn't "beep" when you're over the stud, it shows the proximity when you are NEAR a stud via the large LCD and shows a target graphic when you're spot on. Also includes live wire (voltage) detection, you can be sure that nail you're about to hammer into the wall won't end up in your mains wiring. The best feature of all is the built in laser level. Rotating across 180° with stops on 45° and 90°, you can instantly and easily do layouts and basic tasks such as picture levelling in a snap. The inbuilt spirit level ensures you're at the right angle.

- Laser levelling, layout and stud locating on vertical and horizontal surfaces
- Wood, metal and live wire detection
- 180° pivoting laser plane with level and plumb vials
- 20ft laser line projections onto work surface with 90° squaring
- Two self contained half pins to mount unit to work surface
- LCD sensing and mode display with target graphics
- LED display with continuous live wire detection
- Thumb dial adjustable feet for levelling the laser
- Easy keypad operations and comfortable grip
- Powered by 9V Battery (included)
- Dimensions: 180(H) x 67(W) x 38(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP2288	$74.90	$67.40	$59.90

Weighing Scales

100G MINI-POCKET SCALE

Truly pocket-size scales. Ideal for laboratory, diets, clinical, jewellery or lapidary work. They'll measure up to 100 grams with excellent resolution and weigh in grams, carats, pennyweight or ounces. 1 x CR2032 battery included.

- 60 second auto power-off
- Tare function
- 0.01g resolution
- Dimensions: 72(L) x 40(W) x 10(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
100g Mini-Pocket Scale	QM7258	$59.90	$53.90	$47.90

200G MINI-SCALE WITH BACKLIGHT

Extremely accurate mini scale suitable for a variety of applications. The large LCD is backlit and a 200g calibration weight is included. Resolution is 0.01g and it weighs in grams, carats, ounces and pennyweight.

- 2 x AAA batteries included
- Dimensions: 93(L) x 52(W) x 20(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
200g Mini-Scale with Backlight	QM7259	$83.90	$75.50	$66.90

1KG DIGITAL BENCH SCALE

Precision 1kg electronic scale with resolution of 0.01g for when a high degree of accuracy is required. Weighs in grams, ounces, pounds, grains, carats, troy ounces and also supplied with a wind shield and a built-in bubble level to provide maximum accuracy. Particularly suited to calculating quantities as it counts pieces by weight. Powered by 4 x AA batteries (not included) or mains adaptor. Suitable for kitchen, lapidary, jewellery, reloading etc.

- Auto power-off after 60 seconds
- Automatic calibration
- Backlit LCD
- Tare and counting function
- Mains powered
- Dimensions: 175(W) x 75(H) x 260(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
1kg Digital Bench Scale	QM7264	$219.00	$196.90	$174.90

COMPACT DIGITAL LUGGAGE SCALE 50KG

Provides measurement in grams and kilograms, as well as pounds and ounces. Bright display with clear numbers and blue-backlight. Battery included.

- Up to 50kg
- kg/g and lb/oz
- Blue backlight

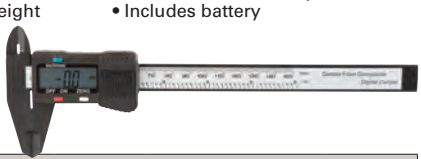
	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM7234	$22.90	$20.90	$17.90

Vernier Calipers

BUDGET 150MM DIGITAL VERNIER CALIPERS

This carbon composite digital caliper is ideal for general use and situations where the cost of our precision stainless steel tool isn't justified. The digital display is calibrated in imperial and metric units with a corresponding vernier scale etched onto the caliper slide. While we wouldn't recommend you use this caliper to build the Space Shuttle, it's perfectly suited to the home handyperson who finds traditional calipers hard to read.

- 150mm measurement range
- 0.1mm resolution
- 8.3mm LCD character height
- 245mm Overall length (closed)
- Internal and external jaws
- Includes battery



	Cat.	Qty 1+	Qty 3+	Qty 6+
Budget 150mm Vernier Calipers	TD2081	$17.90	$15.90	$14.30

150MM DIGITAL VERNIER CALIPERS

This precision instrument is made out of surgical grade stainless steel. It features a 5 digit LCD and will show readings in metric - 3 significant figures plus 2 decimal and in imperial - 2 significant figures and would you believe 3.5 decimal. (The fourth figure is either 0 or 5). The caliper can be zeroed at any point on the scale. Supplied with a sturdy clip-lock case with foam retainer and provision for spare battery.

- 0 - 150mm (0-6") range
- Resolution 0.01mm / 0.0005" (repeatability same)
- LR-44 battery powered (supplied)
- Battery life 12 months nominal
- Auto power off
- Thumbscrew slide damper
- Converts millimeters to inches and vice versa

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm Vernier Calipers	TD2082	$48.90	$44.00	$39.10

Panel Meters

3.5 DIGIT LCD PANEL METERS

Common Specifications for QP5570, QP5580 & QP5585

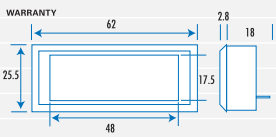
- Polariy: Automatic (-) for negative value
- Input: Analogue
- Zeroing: Automatic
- Operating temp: Standard 0 to 50°C
- Configuration: True differential input & reference
- Decimal point: User selectable
- Full scale range: 200mV
- Impedence: 10MΩ
- Conversion rate: 2.5 per second

LCD PANEL METER

- Attractive modern bezel
- Snap retaining into panel
- Shallow depth
- 0.1" launcher connections

1 YEAR WARRANTY

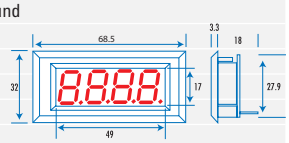
SPECIFICATIONS	QP5570
Type Of Display	LCD
Digits	3 1/2 digits (1999) 12.7mm figure height
Power	5V powered
Over Range	Display flashes "1"
Accuracy	±(0.1%rdg.+1dgt.)
Connection	13 pins
Dimensions	62(W) x 25(H) x 15(D)mm
Panel Cutout	60.5(W) x 24(H)mm



LED PANEL METER

- Surface mount construction for reliability
- 0.1" launcher connections
- Brightness matched superbright LEDs
- Attractive bezel with mounting clips
- 5V powered, TTL compatible common ground

SPECIFICATIONS	QP5580
Type Of Display	LED, red super bright
Digits	3 1/2 digits (1999) 14.2mm figure height
Power	5V powered. common ground
Over Range	Display blinks
Accuracy	±(0.1%rdg.+2dgt.)
Connection	10 pins
Dimensions	68.5(W) x 33(H) x 16(D)mm
Panel Cutout	64(W) x 28(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
LCD Panel Meter	QP5570	$33.90	$29.90	$26.90
LED Panel Meter	QP5580	$36.90	$33.20	$29.50

ADD ON BOARD FOR QP5570/80

This add on board makes it easy to set the range and decimal point on our QP5570 or 80 panel meters. The ranges can be permanently set with a solder bridge or wired to a switch for selectable ranges.

- No 200mV range on QP5580
- Cannot be used in applications where voltage to be measured also powers DPM

	Cat.	Qty 1+	Qty 5+	Qty 10+
Add On Board For QP5570/80	QP5575	$11.90	$10.70	$9.50

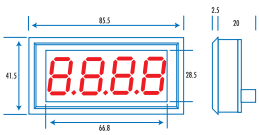
Conrad Jenkins likes to

think. possible.

"I think the apple watch will evolve to be true universal communicator and translator to allow instant world wide communication and gives the ability speak to all of the world'"

3.5 DIGIT JUMBO LED PANEL METER

This is not just a digital display, but a fully functional high impedance digital panel meter that only requires power to operate. It will measure voltages from 200mV to 500VDC (jumper selectable) and has a maximum count of 1999. The module is suitable for a host of applications and can be used as a voltmeter or adapted for use as a current meter, thermometer etc. The decimal point location can be selected with a jumper and the module uses an easy "plug-in" fixing method. The meter shares a common ground with the voltage being measured.



SPECIFICATIONS	QP5585
Type Of Display	LED
Digits	3.5 Digits (1999) 20.3mm figure height
Power	5VDC, common ground, 60mA typical
Over Range	"1" shown on display
Accuracy	±0.5%
Dimensions	85(W) x 42(H) 25(D)mm
Panel Cutout Size	84(W) x 41(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
3.5 Digit Jumbo LED Panel Meter	QP5585	$41.90	$37.90	$33.40

SELF-POWERED LED PANEL METERS 4.5-30VDC

Super simple to install, simply connect the power you want to monitor! Some panel meters require a power source in addition to a sensor wire to the source you want to monitor. These units connect straight up, with no fuss! Suitable for use between 4.5V and 30VDC, they're suitable for many DC applications including cars, boats, caravans, and other 12-24V sources. However their wide measurement range means they can be applied to many other applications too! Red coloured display. Panel mount with self-retaining spring clips.

- 4.5-30VDC input
- Simple two-wire installation

SPECIFICATIONS	QP5581
Input	4.5-30VDC
Accuracy	1%
Refresh Speed	300ms
Working Current	<23mA
Weight	16g
Dimensions	48(W) x 29(H) x 22(D)mm
Panel Cutout Size	45(L) x 26(W)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Voltmeter	QP5581	$16.90	$14.90	$13.90

SELF-POWERED LED PANEL AMMETERS

Simple and easy to install self-powered ammeter for current display. It has 4-wire connection with an included current shunt. Auto zero calibration and easy to read red LED display. Give your next project a truly professional look. Perfect for automotive, caravan or 4WD use.

- Cutout size 42 x 23mm
- Easy installation
- Reverse Polarity protection
- Auto zero calibration
- Self powered

SPECIFICATIONS	QP-5588
Power Requirements	8 - 30VDC
Measurement Range	0 - 50ADC
Maximum Display Count	1999
Sample Frequency	400mS

Current shunt included.
Note! When connecting the ammeter QP5588 it is essential that the wiring instructions provided with the product are followed, or the meter may be destroyed.

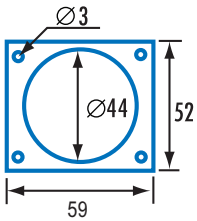
	Cat.	Qty 1+	Qty 5+	Qty 10+
Ammeter	QP5588	$47.90	$42.90	$38.40

For next day delivery, or Click and Collect, see page 5

Panel Meters - MU45

PANEL METERS STYLE MU45 - MOVING COIL TYPE

- Overall Dimensions: 59(W) x 52(H)mm
- 44mm meter hole
- MU45
- Class 2.5



QP5013

QP5016

CAT.	COIL RESISTANCE	SCALE
QP5010	200 Ω	0-1mA
QP5012	3,000 Ω	0-50µA
QP5013	0.05 Ω	0-1A
QP5014	0.01 Ω	0-5A
QP5015	0.005 Ω	0-10A
QP5016	0.003 Ω	0-20A
QP5020	20,000 Ω	0-20V
QP5022	30,000 Ω	0-30V

	Cat.	Qty 1+	Qty 3+	Qty 6+
	Any of the above	$21.90	$19.30	$16.90

Heavy Duty Current Shunts

HEAVY DUTY CURRENT SHUNTS

Placed in series with a high power circuit, these shunt bars allow you to measure high current draw without needing a high current ammeter. Heavy duty brass construction and hand calibrated, they include large terminals for connection of the main circuit cables and smaller terminals for connection to a meter. Suitable for use with a standard multimeter or panel meter you simply measure the millivolts across the shunt to display the current draw of the circuit. Models are compatible with many readily available power meters such as our MS6172 Digital DC Power Meter.

NOTE: Care must be taken when using current shunts to measure DC circuits with common powered meters. Incorrect connection can cause a short circuit between the measuring terminal and the display power resulting in damage to the voltmeter. To avoid this issue the current shunt should be connected in series between the load and the power supply negative. Please see our website for more information.

QP5412

QP5415

Diagram on web.

MANUFACTURERS: WE HAVE A SHUNT SUPPLIER WHO IS IMPOSSIBLE TO BEAT FOR PRICES AND QUALITY. WE CAN SUPPLY CUSTOM SHUNTS IN QUANTITIES AS LITTLE AS 100 PIECES. CONTACT OUR WHOLESALE SUPPLIER FOR DETAILS.

CAT	MAX CURRENT	VOLTAGE AT MAX CURRENT	SHUNT RESISTANCE	ACCURACY
QP5410	5A	50mV	10milliOhm	0.5%
QP5412	50A	50mV	1milliOhm	0.5%
QP5415	100A	50mV	0.5mOhm	0.5%
QP5417	200A	50mV	0.25mOhm	0.5%

Max current	Voltage at Max Current	Cat.	Qty 1+	Qty 5+	Qty 10+
5A	50mV	QP5410	$15.90	$13.70	$12.30
50A	50mV	QP5412	$15.90	$13.70	$12.30
100A	50mV	QP5415	$24.90	$22.30	$19.70
200A	50mV	QP5417	$24.90	$22.30	$19.70

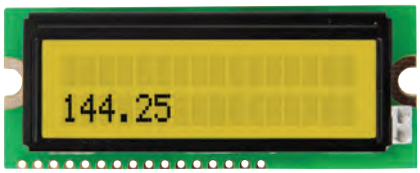
tech talk — How To Install A Shunt

- Voltmeter is on millivolt scale
- Voltmeter connections to shunt are on each side of shunt
- If current is DC observe polarity. If AC amps connect either way
- Specs of shunt generally stamped on the shunt itself ie. 50mV/50A (volt drop across shunt) equates to 5, 10, 20A max current, etc. i.e. A 25mV reading on the millivolt meter would equate to 25A current on a 50A/50mV shunt. You can read the current straight off the millivolt scale on the meter.

LCD Modules

LCD PANEL 2 LINE 16 CHARACTER COMPACT WITH BACKLIGHT & SIL CONNECTIONS

This compact LCD module has 96 inbuilt ASCII characters as well as 92 special letters and 8 custom characters, which can be displayed on a 16 character by 2 line screen. It will hold the current input on the display using its own built in memory, making it easy to drive. Connections via single in line solder pads with an independent backlight.



SPECIFICATIONS	QP5512
Type	2 line LCD
Characters	16 x 2 lines
Character Size	4.89 x 2.78mm
Viewing Angle - Vertical	Sym 0 condition: CR>=2° , Min -10° Max 40°
Viewing Angle - Horizontal	Sym 0 condition: CR>=2° , Min -30° Max 30°
Suply Voltage For Logic	5VDC
Other Mechanical Data	Power supply current: 2mA, Duty: 1/16
Module Dimensions	66(W) x 26(H) x 12(D)mm
Viewing Display Area	51(W) x 14.8(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Backlight	QP5512	$16.90	$14.90	$13.90

DOT MATRIX LCD MODULES - ALPHANUMERIC

Compact Liquid Crystal Diode module with ASCII (96 characters), Special Letters (92 characters) and Custom Letters (8 characters). A two line screen displays up to 16 characters at a time and the module will hold the current display in its own inbuilt memory.

SPECIFICATIONS	QP5515 /QP5516
Type	Alphanumeric, 2 line LCD
Characters	16 x 2 lines
Character Size	4.89 x 2.78mm
Viewing Angle - Vertical	Sym 0 condition: CR>=2°, Min -10° Max 40°
Viewing Angle - Horizontal	Sym 0 condition: CR>=2°, Min -30° Max 30°
Supply Voltage For Logic	SYN: VDD - VSS Min 4.5V Typ 5V Max 5.5V
Other Mechanical Data	STN, yellow green, 1/16 duty, 6 o'clock
Module Dimensions	85(W) x 30(H) x 13.2(D)mm
Viewing Display Area	65(W) x 16(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Without Backlight	QP5515	$14.90	$13.90	$10.90
With Backlight	QP5516	$24.90	$22.40	$17.40

DOT MATRIX WHITE ON BLUE LCD

A HD44780 compatible character LCD display which features white backlit text on a blue background for great readability in all conditions. It features two lines of 16 characters, and is the same module as used in our XC4454 Arduino LCD Shield. Suits XC3706 I2C Port expander.

- 0.1" SIL connector for easy breaboarding/prototyping
- Can be controlled with 6 GPIO pins
- Nominal 5V supply with max 4.5mA operating current (excluding backlight)
- Separate backlight and contrast connections
- HD44780 compatible for use with many microcontrollers including Arduino
- 4 x Mounting holes

Note: Simulated displays.

QP5521

QP5522

	Cat.	Qty 1+	Qty 10+	Qty 25+
16 x 2 Character	QP5521	$22.90	$20.90	$15.90
20 x 4 Character	QP5522	$28.90	$25.90	$19.90

security & surveillance

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security & surveillance

affordable quality

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We here at Jaycar have been selling security camera systems for over 30 years. The technology has moved appreciably since then. For example, the first surveillance recording systems were basically household VHS video recorders! They simply wore out very quickly. Now all recording is digital or in the cloud. Nothing to wear out and a quantum leap in reliability. The quality, resolution, sensitivity and overall performance improvements of surveillance cameras, has if anything, been even more dramatic.

Our 2019 line-up features a major, major development. Jaycar has contracted with a major overseas manufacturer of camera and recorder equipment who supplies industrial surveillance organisations all over the world. What we are saying here is that we are sourcing products for industrial/government/military areas but configuring packages to you at realistic prices. We have named this equipment Concord and it carries the full backing of our 40 year business association of technical customer service.

The Concord product range offers astonishing performance, reliability and value to the surveillance user in the 21st Century.

And of course like all serious surveillance/security companies, we offer an alternative to our Concord range.

This is of course, is our strong commitment to the venerable SWANN range of security/surveillance gear. We are constantly amazed (and impressed) by Swann's ability to almost reinvent itself every year. They have an uncanny dedication to product improvement and development.

The next "big thing" in surveillance is face recognition. We are not going to present it to you half baked. Let us say though, we as a company are reviewing some pretty exciting facial recognition technology right now. We may indeed test it in some of our stores for reliability.

Finally, the world of surveillance technology is moving faster now than it ever has before. If your application is simply area monitoring, you may not have a need for fancy close-up facial recognition technology and what is in these following pages is fine for your needs (check out our new range of IP cameras & accessories on p.266). What you need to know, however, is that our technical staff are abreast of the latest developments.

So why go to a hardware store for surveillance equipment when you can get the advice from our EXPERTS for FREE and pay no more?

CONCORD

Adding to our existing range of quality AV cables, Concord now offers a collection of video surveillance products with features that were previously only available on high end or commercial products. Concord DVR and NVR surveillance systems range from 1080p HD to 4K UHD resolution. The kits come in different configurations of camera type and quantity and contain everything you need for and an easy DIY installation.

For added peace of mind all Concord surveillance kits come with a 2-year warranty, online and phone support. For more information, visit:

www.concord.support/surveillance

1080p DVR Packages

4 CHANNEL HD DVR PACKAGE - 4 X 1080P CAMERAS

NEW

GET IT ON Google play

Available on the App Store

Protect your property with this easy to install surveillance system. The kit includes four weatherproof 1080p cameras to capture vision in high definition, features built-in infrared LEDs for night vision up to 15m, and a PIR movement sensor to help prevent false triggers. The digital video recorder includes a built-in 1TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, and push notifications to send alerts to your phone. There is also support for two IP cameras (not included), making the system 6 channel in total. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or log in remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. A USB mouse is included to navigate the on-screen menus, and a second USB 2.0 port allows you to backup data to your external storage drive.

- 4 weatherproof bullet cameras
- Additional support for 2 IP cameras*
  *(*requires an external switch or router)*
- Infrared illumination for night vision
- PIR movement detection with push notification
- Secure data via cloud storage
- Free app to view on compatible smart phone
- External backup via USB

2 YEAR WARRANTY

SPECIFICATIONS	QV5000
Channels	4
Video Input	4 x BNC
Audio Input	4 x RCA
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	1080p (1920 x 1080)
Recording Resolution	1080p (1920 x 1080)
Frame Rate	30fps (Each Channel)
Video Compression Format	H.264/H.265
Hard Drive	1TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)
USB Interface	2 x USB 2.0 (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	230 (W) x 215 (L) x 47 (H) mm

CONCORD

SPECIFICATIONS	QV5000
CAMERA	
Resolution	1080p (1920 x 1080)
Lens Angle	87°
Infrared Range	Up to 15m
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70 (H) x 70 (W)mm

	Cat.	Qty 1+
4 Channel 1080p DVR Kit with 4 x 1080p PIR Cameras	QV5000	$459.00

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

buying online? use PayPal!

PayPal

You can use PayPal for any online orders, for delivery or 1hr Click and Collect pickup. Just select PayPal during checkout for added convenience!

For next day delivery, or Click and Collect, see page 5

1080p DVR Packages CONTINUED

2 YEAR WARRANTY

NEW

QV5006

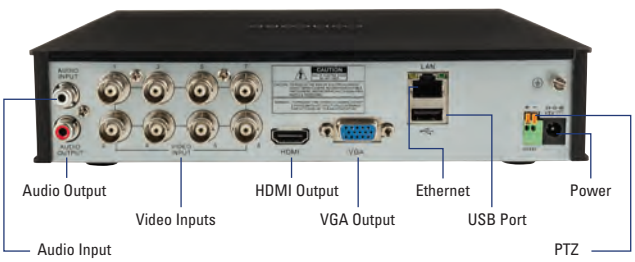
8 CHANNEL HD DVR PACKAGE - 1080P CAMERAS

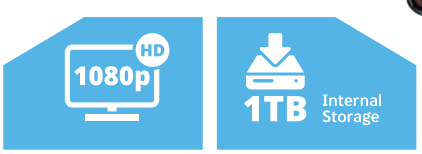
Protect your property with this easy to install surveillance system. The kit includes weatherproof 1080p cameras to capture vision in high definition, features built-in infrared LEDs for night vision up to 15m, and a PIR movement sensor to help prevent false triggers. The digital video recorder includes a built-in 1TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, and push notifications to send alerts to your phone. There is also support for four IP cameras (not included), making the system 12 channel in total. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or log in remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. A USB mouse is included to navigate the on-screen menus, and a second USB 2.0 port allows you to backup data to your external storage drive.

- Expandable to 8 x 1080p cameras
- Additional support for up to 4 IP cameras*
  *(*requires an external switch or router)*
- Infrared illumination for night vision
- PIR movement detection with push notification
- Secure data via cloud storage
- Free app to view on compatible smart phone
- External backup via USB

CONCORD

SPECIFICATIONS	ALL
Channels	8
Video Input	8 x BNC
Audio Input	1 x RCA
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	1080p (1920 x 1080)
Recording Resolution	1080p (1920 x 1080)
Frame Rate	30fps (Each Channel)
Video Compression Format	H.264/H.265
Hard Drive	1TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)
USB Interface	2 x USB 2.0 (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	230 (W) x 215 (L) x 47 (H) mm
CAMERA	
Resolution	1080p (1920 x 1080)
Lens Angle	87°
Infrared Range	Up to 15m
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70 (H) x 70 (W)mm





	Cat.	Qty 1+
8 Channel 1080p DVR Kit with 4 x 1080p PIR Cameras	QV5002	$569.00
8 Channel 1080p DVR Kit with 6 x 1080p PIR Cameras	QV5004	$679.00
8 Channel 1080p DVR Kit with 8 x 1080p PIR Cameras *Shown*	QV5006	$789.00

Concord DVR Packages CONTINUED

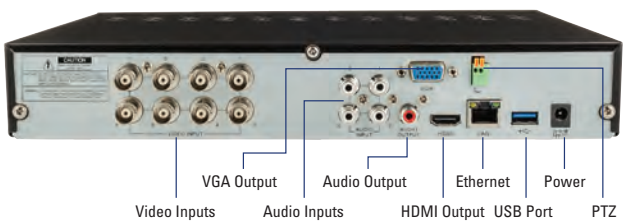
8 CHANNEL 4K DVR PACKAGE - 5MP CAMERAS

Protect your property and capture all the details in crystal clear 5MP high resolution with this easy to install surveillance system. The kit includes weatherproof 5MP bullet cameras with built-in infrared LEDs for night vision up to 20m, and a PIR movement sensor to help prevent false triggers. The digital video recorder includes a built-in 2TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, and push notifications to send alerts to your phone. The 4K DVR allows you to upgrade the cameras to 4K for even more detail. There is also support for four IP cameras (not included), making the system 12 channel in total. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or log in remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. A USB mouse is included to navigate the ons-creen menus, and a second USB 3.0 port allows you to backup data to your external storage drive.

- 4K digital video recorder
- Expandable to 8 x 5MP cameras
- Additional support for 4 IP cameras* *(*requires an external switch or router)*
- Infrared Illumination for night vision
- PIR movement detection with push notification
- Secure data via cloud storage
- Free app to view on compatible smart phone
- External backup via USB

CONCORD

SPECIFICATIONS	ALL
Channels	8
Video Input	8 x BNC
Audio Input	4 x RCA
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	5MP (2560 x 1920), 4K (3840 x 2160)
Recording Resolution	5MP (2560 x 1920)
Frame Rate	30fps (Each Channel)
Video Compression Format	H.264/H.265
Hard Drive	2TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)
USB Interface	1 x USB 2.0 + 1 x USB 3.0 (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100/1000Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	300 (W) x 227 (L) x 53 (H)mm
CAMERA	
Resolution	5MP (2560 x 1920)
Lens Angle	87°
Infrared Range	Up to 20m
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70 (H) x 70 (W)mm



	Cat.	Qty 1+
8 Channel 4K DVR with 4 x 5MP PIR Cameras	QV5100	$899.00
8 Channel 4K DVR with 6 x 5MP PIR Cameras	QV5102	$1,099.00
8 Channel 4K DVR with 8 x 5MP PIR Cameras *Shown*	QV5104	$1,349.00

All prices are in New Zealand Dollars

For next day delivery, or Click and Collect, see page 5

CONCORD

NEW

2 YEAR WARRANTY

4K UHD

QV5204

8 Channel 4K DVR Package - 4K Cameras

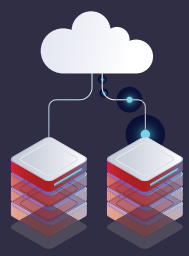
4K UHD

2TB Internal Storage

Protect your property and capture all the details in 4K ultra high definition with this easy to install surveillance system. The kit includes weatherproof 4K bullet cameras with built-in infrared LEDs for night vision up to 20m, and a PIR movement sensor to help prevent false triggers. The digital video recorder includes a built-in 2TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, and push notifications to send alerts to your phone. There is also support for four IP cameras (not included), making the system 12 channel in total. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or login remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. 18m video and power cables are included for easy camera wiring.

- Expandable to 8 x 4K cameras
- Additional support for 4 IP cameras* *(*requires an external switch or router)*
- Infrared illumination for night vision
- PIR movement detection with push notification
- Secure data via cloud storage
- Free app to view on compatible smart phone
- External backup via USB

DROPBOX™ CLOUD STORAGE



GET IT ON Google play

Available on the App Store

SPECIFICATIONS	ALL
Channels	8
Video Input	8 x BNC
Audio Input	4 x RCA
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	4K (3840 x 2160)
Recording Resolution	4K (3840 x 2160)
Frame Rate	30fps (Each Channel)
Video Compression Format	H.264/H.265
Hard Drive	2TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)
USB Interface	1 x USB 2.0 + 1 x USB 3.0 (Mouse/Backup/ Upgrade)
Network Interface	Ethernet, RJ45 10/100/1000Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	300 (W) x 227 (L) x 53 (H)mm
CAMERA	
Resolution	4K (3840 x 2160)
Lens Angle	85°
Infrared Range	Up to 20m
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70 (H) x 70 (W)mm

	Cat.	Qty 1+
8 Channel 4K DVR with 4 x 4K PIR Cameras	QV5200	$1,099.00
8 Channel 4K DVR with 6 x 4K PIR Cameras	QV5202	$1,449.00
8 Channel 4K DVR with 8 x 4K PIR Cameras *Shown*	QV5204	$1,799.00

Related Products:

AHD DOME CAMERA

Included with each camera is:

1 x Camera
1 x 18m Cable
1 x Mains Power Adaptor
Mounting Hardware

2 YEAR WARRANTY

NEW

	Cat.	Qty 1+	Qty 2+	Qty 4+
4K Dome	QC5222	$209.00	$187.90	$176.90

AHD BULLET CAMERA

Included with each camera is:

1 x Camera
1 x 18m Cable
1 x Mains Power Adaptor
Mounting Hardware

2 YEAR WARRANTY

NEW

	Cat.	Qty 1+	Qty 2+	Qty 4+
4K Bullet	QC5220	$209.00	$187.90	$176.90

Concord 5MP NVR Kits

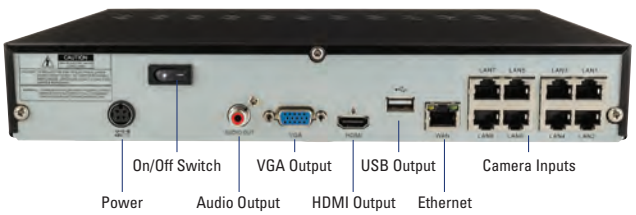
8 CHANNEL 4K NVR PACKAGE - 5MP CAMERAS

This Network Video Recorder uses ethernet cables to carry video, audio, and power to each IP camera. This saves you from messy wiring and multiple power supplies. The IP cameras can also be connected to your wired network, allowing you to have cameras hundreds of metres away if you have a large property, without impacting the image quality. The kit includes weatherproof 5MP bullet cameras with a built-in microphone, infrared LEDs for night vision up to 30m, and a PIR movement sensor to help prevent false triggers. The NVR includes a built-in 2TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, and push notifications to send alerts to your phone. The 4K NVR allows you to upgrade the cameras to 4K for even more detail. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or login remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. A USB mouse is included to navigate the on-screen menus, and a second USB 2.0 port allows you to backup data to your external storage drive.

- 4K network video recorder
- Expandable to 8 x 5MP cameras
- Additional support for up to 4 x IP cameras*
  *(*requires an external switch or router)*
- Microphone in camera to record audio
- Infrared illumination for night vision
- PIR movement detection with push notification
- Secure data via cloud storage
- Free app to view on compatible smart phone
- External backup via USB

CONCORD

SPECIFICATIONS	ALL
Channels	8
Video Input	8
Audio Input	-
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	5MP (2560 x 1920), 4K (3840 x 2160)
Recording Resolution	5MP (2560 x 1920)
Frame Rate	30fps (Each Channel)
Video Compression Format	H.264/H.265
Hard Drive	2TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)
USB Interface	1 x USB 2.0 + 1 x USB 3.0 (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100/1000Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	300 (W) x 227 (L) x 53 (H)mm
CAMERA	
Resolution	5MP (2560 x 1920)
Lens Angle	77°
Infrared Range	Up to 30m
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70 (H) x 70 (W)mm



	Cat.	Qty 1+
8 Channel 4K NVR with 4 x 5MP PIR Cameras	QV5600	$1,099.00
8 Channel 4K NVR with 6 x 5MP PIR Cameras	QV5602	$1,449.00
8 Channel 4K NVR with 8 x 5MP PIR Cameras *Shown*	QV5604	$1,699.00

All prices are in New Zealand Dollars

For next day delivery, or Click and Collect, see page 5

CONCORD

NEW

2 YEAR WARRANTY

4K UHD

QV5704

8 CHANNEL 4K NVR PACKAGE

QV5704

Features:

- Access it on your computer
- Mobile Viewing

GET IT ON Google play

Available on the App Store

8 Channel 4K NVR Package - 4K Cameras

This Network Video Recorder uses ethernet cables to carry video, audio, and power to each IP camera. This saves you from messy wiring and multiple power supplies. The IP cameras can also be connected to your wired network, allowing you to have cameras hundreds of metres away if you have a large property, without impacting the image quality. The kit includes a total of eight weatherproof 4K UHD bullet cameras. Each camera has a built-in microphone, infrared LEDs for night vision up to 30m, and a PIR movement sensor to help prevent false triggers. †Two cameras also include built-in LED Spotlights to deter and shine a light on potential intruders. The NVR includes a built-in 2TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, push notifications to send alerts to your phone and Intelligent Analysis to help users search the video files efficiently. Other intelligent functions include Perimeter Intrusion Detection, Line Crossing Detection, Stationary Object Detection, Pedestrian Detection, Face Detection and Cross Counting. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or log in remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. A remote control and USB mouse are included to navigate the on-screen menus, and a second USB 2.0 port allows you to backup data to your external storage drive.

Included:

- 4K network video recorder
- Expandable to 8 x 4K cameras
- Additional support for up to 4 IP cameras* (*requires an external switch or router)
- Microphone in camera to record audio
- Infrared illumination for night vision
- PIR movement detection with push notification
- Secure data via cloud storage
- Free app to view on compatible smart phone
- External backup via USB

†*Note: QV5700 is not supplied with the spotlight cameras*

SPECIFICATIONS	ALL
Channels	8
Video Input	8
Audio Input	-
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	4K (3840 x 2160)
Recording Resolution	4K (3840 x 2160)
Frame Rate	30fps (Each Channel)
Video Compression Format	H.264/H.265
Hard Drive	2TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)
USB Interface	1 x USB 2.0 + 1 x USB 3.0 (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100/1000Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	300 (W) x 227 (L) x 53 (H)mm
CAMERA	
Resolution	4K (3840 x 2160)
Lens Angle	96° (PIR) / 87° (Flood)
Infrared Range	Up to 30m (PIR)/ Up to 20m (PIR flood)
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70(H) x 70(W)mm PIR / 155(L) x 70(H) x 70(W)mm PIR Flood

	Cat.	Qty 1+
8 Channel 4K NVR with 4 x 4K PIR Cameras †	QV5700	$1,549.00
8 Channel 4K NVR with 4 x 4K PIR Cameras, 2 x 4K PIR Floodlight Cameras	QV5702	$2,149.00
8 Channel 4K NVR with 6 x 4K PIR Cameras, 2 x 4K PIR Floodlight Cameras *Shown*	QV5704	$2,699.00

Concord cameras

Expand your surveillance system with extra weatherproof HD and 4K cameras.

Choose either a bullet shape to make the camera more visible to potential intruders, working as a deterrent to protect your property and loved ones or a dome shape that is more difficult to see where the camera is pointing and much harder to damage.

All cameras have built-in Thermal Detect Technology for compatible DVR or NVR systems and built-in infrared LEDs for night vision up to 20m. The integrated IR cut filter improves colour reproduction during daylight and automatically switches off in darkness.

Depending on the Concord DVR or NVR you own you can choose to add HD 1080p, 5MP or UHD 4K cameras so you won't miss details such as number plates or clothing details that can help catch trespassers.

- IP Rating: IP66
- Power: 12VDC
- Dimensions: Bullet: 70(Dia.) x 140(D)mm
  Dome: 100(Dia.) x 100(H)mm

AHD CAMERAS

Included with each camera is:
1 x Camera
1 x 18m Cable
1 x Mains Power Adaptor
Mounting Hardware

Selected Models 4K UHD

NEW

2 YEAR WARRANTY

CONCORD

SPECIFICATIONS	QC5020 / QC5022	QC5120 / QC5122	QC5220 / QC5222
Type of Camera	Bullet / Dome		
Supports	AHD		
Resolution	1080p (1920 x 1080)	5MP (2560 x 1920)	4K (3840 x 2160)
Lens	3.6mm		
Lens Angle	87°	87°	85°
Infrared Range	Up to 15m	Up to 20m	Up to 20m
IP Rating	IP66		
Power	12VDC, 1A		
Dimensions	Bullet: 140(L) x 70(H) x 70(W)mm Dome: 100 (L) x 100 (H)mm		

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p Bullet	QC5020	$79.90	$71.90	$67.90
1080p Dome	QC5022	$79.90	$71.90	
5MP Bullet	QC5120	$119.00	$106.90	$100.90
5MP Dome	QC5122	$119.00	$106.90	$100.90
4K Bullet	QC5220	$209.00	$187.90	$176.90
4K Dome	QC5222	$209.00	$187.90	$176.90

IP CAMERAS

Included with each camera is:
1 x Camera
1 x 18m Ethernet Cable
Mounting Hardware

Selected Models 4K UHD

NEW

2 YEAR WARRANTY

CONCORD

SPECIFICATIONS	QC5620 / QC5622	QC5720 / QC5722	QC5724
Type of Camera	Bullet / Dome	Bullet / Dome	Bullet
Supports	IP		
Resolution	5MP (2560 x 1920)	4K (3840 x 2160)	4K (3840 x 2160)
Lens	3.6mm	3.6mm	4.0mm
Lens Angle	77°	96°	87°
Infrared Range	Up to 30m	Up to 30m	Up to 20m
IP Rating	IP66		
Power	POE		
Dimensions	Bullet: 140(L) x 70(H) x 70(W)mm Dome: 100 (L) x 100 (H)mm		

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p Bullet	QC5620	$169.00	$151.90	$142.90
1080p Dome	QC5622	$169.00	$151.90	
4K Bullet	QC5720	$289.00	$259.00	
4K Dome	QC5722	$289.00	$259.00	
4K Bullet with Floodlight	QC5724	$319.00	$279.00	$269.00

Wireless Digital DVR & Camera Kits

SWANN 1080P BATTERY POWERED WI-FI CAMERA

A completely wire-free camera that you can place around the house or office to watch live or recorded video remotely all you need is Smartphone and Wi-Fi connection. The camera is rechargeable via USB and has versatile mounting options for temporary or permanent mounting. The camera protects you day and night with powerful 10m night vision, crisp Full HD 1080p video and a super wide 120° viewing angle. Use it indoors or outdoors thanks to the IP65 weatherproof rating and the built-in microphone will capture audio to add that extra layer of evidence to your video footage. To preserve battery life and to capture relevant footage, the built-in PIR heat-sensing sensor triggers recordings only when it senses people, large pets or cars up to 8m away. The camera's internal memory saves up to 7 days (hundreds) of 10-60 second video clips plus 2 days of free cloud storage.

- Free Android & iOS® Smartphone app
- Rechargeable lithium battery
- 7 day local & cloud storage
- True Detect™ PIR motion sensing technology
- In-built audio
- Lifetime 24/7 Swann support

1 YEAR WARRANTY

DUAL BAND

NEW TRUE DETECT™ HEAT FROM WARM OBJECTS TRIGGERS RECORDING & ALERTS

Swann

	Cat.	Qty 1+
1080p Wi-Fi Camera	QV9060	$299.00
Twin Pack 1080p Wi-Fi Camera	QV9062	$569.00
Quad Pack 1080p Wi-Fi Camera	QV9068	$949.00
Accessories	**Cat.**	**Qty 1+**
Secure Mount	QV9063	$22.90
Magnet Stand	QV9065	$22.90
Solar Panel	QV9067	$119.00

SPECIFICATIONS	
Resolution	1080p (1920 x 1080)
Frame Rate	25fps
Video Compression	H.264
Lens Angle	120°
Wi-Fi Frequency	2.4GHz & 5GHz
Infrared Range	Up to 10m
IP Rating	IP65
Battery	Li-ion 3.7V, 6000mAh
Dimensions	87(H) x 61(D) x 58(W)mm

GET IT ON Google play

Available on the App Store

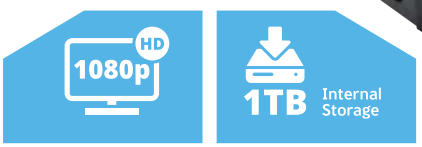
For next day delivery, or Click and Collect, see page 5

Concord Wireless NVR Package

4 CHANNEL WIRELESS NVR PACKAGE - 4 X 1080P CAMERAS

This Network Video Recorder uses wireless cameras to save you from running wires through the home or office. Perfect for renters or temporary surveillance applications. The kit includes four wireless 1080p bullet cameras with a range up to 40m. Each camera has a built-in microphone, built-in infrared LEDs for night vision up to 20m, and a PIR movement sensor to help prevent false triggers. The NVR includes a built-in 1TB HDD and supports FTP storage or Dropbox™ Cloud Storage to safeguard your data, and push notifications to send alerts to your phone. Watch live or playback video on your HDTV or LCD monitor via HDMI or VGA, or log in remotely via your Apple or Android compatible Smartphone or Tablet using the free app. Connecting your Smartphone is made easy using Peer-to-Peer (P2P) technology and scanning a QR code with the app. A USB mouse is included to navigate the on-screen menus, and a second USB 2.0 port allows you to backup data to your external storage drive.

- 1080p Digital Video Recorder
- 4 Wireless Enabled Weatherproof Bullet Cameras
- Infrared Illumination for Night Vision
- PIR Movement Detection with Push Notification
- Secure Data via Cloud Storage
- Free App to View on Compatible Smart Phone
- External Backup via USB



CONCORD

SPECIFICATIONS	QV5500
Channels	4
Video Input	4
Audio Input	0
Video Output	VGA and HDMI
Audio Output	1 x RCA
Display Resolution	Up to 1080p
Recording Resolution	1080p (1920 x 1080)
Frame Rate	15fps (Each Channel)
Video Compression Format	H.264
Hard Drive	1TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Thermal Detect)

SPECIFICATIONS	QV5500
USB Interface	2 x USB 2.0 (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100Mbps
Software Support	Mac / Windows
Mobile Support	iOS / Android
Dimensions	300 (W) x 227 (L) x 53 (H)mm
CAMERA	
Resolution	1080p (1920 x 1080)
Lens Angle	102°
Infrared Range	Up to 20m
Thermal Detect Range	Up to 10m
IP Rating	IP66
Dimensions	140(L) x 70 (H) x 70 (W)mm

2 YEAR WARRANTY

2.4GHz

GET IT ON Google play

Available on the App Store

	Cat.	Qty 1+
4 x 1080p Wireless Camera Kit	QV5500	$789.00

4 CHANNEL WIRELESS 7" LCD DVR & CAMERA KITS

The large 7" touch screen LCD gives you full control, and you can even connect up to 4 cameras (1 camera included in kit, others available separately). There are two different resolution models available to suit your requirements too! Digital transmission up to 100m ensures a flexible, no-fuss installation. The monitor can be easily moved around thanks to the in-built rechargeable battery, which will power the unit for up to 2.5hrs at a time. Video is then easily recorded to an SD card (not included). The camera itself is a solid weatherproof outdoor camera with built-in LEDs for night vision, and a motion detector (PIR). This can be used to automatically trigger recording from motion detection, so reduce required memory and save review time when looking for events in the recordings. Of course all video is transmitted wirelessly, so you just need a power source nearby the camera. All power supplies are included, as well as mounting hardware for the camera.

- Quad viewing mode
- 2 way audio communication
- Record & playback simultaneously
- Motion detection, scheduled & manual recording

MONITOR	
LCD	7" Touch Screen
Frequency	2.4GHz Digital Wireless
Range	Up to 100m
Resolution	800 x 480 (VGA) Video
Compression	MPEG-4
Recording Format	ASF
Storage	Up to 128GB SD
Battery	3.7V, 2000mAh Li-ion
Battery Time	Up to 2.5hrs
Power	5VDC, 2A
Dimensions	196(L) x 123(H) x 20(D)mm

CAMERA	QC3764
Image Sensor	¼" Colour CMOS
Resolution	720p (1280 x 720)
Frame Rate	25fps (up to 2 cameras), 15fps (up to 4 cameras)
Lens	3.6mm
Viewing Angle	66°
Night Vision	24 x IR LEDs
IP Rating	IP65
Power	9VDC, 600mA
Dimensions	191(L) x 69(Dia.)

View live footage on a Smartphone. Smartphone not included.

2.4GHz

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
720p 7" Touch Screen LCD + 1 x 720p Camera	QC3764	$339.00	$299.00	
Spare Camera to suit	QC3765	$169.00	$151.90	$142.90

DVR & camera kits:

Swann CONCORD NEXTECH

Jaycar stocks the strongest and largest range of security and surveillance products in Australia and New Zealand. Yes, you can buy a small range of security cameras, etc. from a discount Hi-Fi or hardware store. But why would you? The store staff generally know NOTHING about this eclectic area of technology. They know NOTHING about the significance of emerging technologies.

We here at Jaycar are acknowledged EXPERTS in Security and Surveillance products and this year it is no different. You would not get your family GP to remove your appendix, so why go to a mobile phone shop to get advice on a home security/surveillance system?

Jaycar has been selling this gear for over 30 years and we know our stuff. You will pay no more at Jaycar but rest in assurance that the advice you get will be sound, along with the largest range of quality products available. We do not sell mobile phones.

- We now have wider range of 4K UHD resolution products in DVR and NVR
- Some of the high end NVR's now have cameras with in-built floodlights
- One of our best sellers are the wireless, long-life battery powered cameras with 1080p resolution. Ideal for people renting or leasing properties where hard wiring is not allowed. Wireless system popularity is exploding because there is simply no loss in performance any more.
- Value just keeps improving, 1080p kits now start at an amazing $459 (p251) and you can get a full 4K UHD kit for $1099 (p254) both are $200 cheaper than last year!

pick me

DVR Kits

Wired Systems	Channels	Cameras Supplied	Recorder Type	Recorder Resolution	Hard Drive	Camera TV Line	Camera Type	Page
QV5000	4	4	DVR	1080p	1TB	1080p	AHD- Bullet	251
QV5002	8	4	DVR	1080p	1TB	1080p	AHD- Bullet	252
QV5004	8	6	DVR	1080p	1TB	1080p	AHD- Bullet	252
QV9005	8	6	DVR	1080p	1TB	1080p	TVI - Bullet	260
QV5006	8	8	DVR	1080p	1TB	1080p	AHD- Bullet	252
QV5100	8	4	DVR	4K	2TB	5MP	AHD- Bullet	253
QV5102	8	6	DVR	4K	2TB	5MP	AHD- Bullet	253
QV5104	8	8	DVR	4K	2TB	5MP	AHD- Bullet	253
QV5200	8	4	DVR	4K	2TB	4K	AHD- Bullet	254
QV5202	8	6	DVR	4K	2TB	4K	AHD- Bullet	254
QV5204	8	8	DVR	4K	2TB	4K	AHD- Bullet	254
QV9051	8	4	DVR	4K	2TB	4K	TVI - Bullet	261
QV9053	8	4	DVR	4K	2TB	4K	TVI - Dome	261
QV9055	8	6	DVR	4K	2TB	4K	TVI	261
QV9057	8	8	DVR	4K	2TB	4K	TVI	261
QV5600	8	4	NVR	4K	2TB	5MP	IP - Bullet	255
QV5602	8	6	NVR	4K	2TB	5MP	IP - Bullet	255
QV5604	8	8	NVR	4K	2TB	5MP	IP - Bullet	255
QV9072	8	4	NVR	4K	2TB	5MP	IP - Dome	262
QV9074	8	6	NVR	4K	2TB	5MP	IP - Bullet /Dome	262
QV5700	8	4	NVR	4K	2TB	4K	IP - Bullet	256
QV9080	8	4	NVR	4K	2TB	4K	IP - Bullet	262
QV5702	8	6	NVR	4K	2TB	4K	IP - Bullet/Flood	256
QV5704	8	8	NVR	4K	2TB	4K	IP - Bullet/Flood	256
Wireless Systems	**Channels**	**Cameras Supplied**	**Recorder Type**	**Recorder Resolution**	**Hard Drive**	**Camera TV Line**	**Camera Type**	**Page**
QV9060	1	1	WI-FI / Battery	1080p	Internet / Cloud	1080p	WI-FI	257
QC3764	4	1	DVR Wireless	VGA	SD Card	720p	2.4GHz	258
QV5500	4	4	NVR	1080p	1TB	1080p	2.4GHz	258

For next day delivery, or Click and Collect, see page 5

Swann HD DVR & camera kit:

A cutting edge and easy to use surveillance system available in 1080p high definition to see and protect your premises. This DVR kit feature True Detect™ PIR motion sensors on each camera, designed to reliably detect people, pets, cars and other heat generating objects.

View live or playback video in HD with outstanding clarity and enhanced digital zoom on your HDTV or monitor via HDMI or VGA. You can also login into your system remotely via the free Apple® or Android Swann HomeSafe View App. View 4 cameras in quad view, one at a time or add 2 more cameras (sold separately) for 8 channel monitoring.

- True Detect™ PIR motion sensing technology
- Free Android & iOS® Smartphone app
- Record & playback simultaneously
- Easy QR code setup
- Motion detection, manual & scheduled recording
- Password protection
- Motion detection email & push notification alerts
- External USB backup
- Video loss alarm
- Lifetime 24/7 Swann support

Box Contents:

1 x 8 channel DVR
6 x PIR bullet cameras
6 x 18m video & power cables
1 x USB mouse
1 x 1m ethernet cable
1 x HDMI cable
2 x 4 way power splitters
1 x Mains power adaptor
6 x CCTV security stickers
6 x Mounting hardware

1 YEAR WARRANTY

NEW TRUE DETECT™ MOTION & HEAT TRIGGER RECORDING & ALERTS

Swann

DVR	QV9005
Channels	8
Inputs	8 x BNC (Video) / 1 x RCA (Audio)
Outputs	1 x HDMI (Video & Audio) / 1 x VGA (Video) / 1 x RCA (Audio)
Display Resolution	1080p (1920 x 1080)
Recording Resolution	1080p (1920 x 1080)
Frame Rate	25fps (Each Channel)
Video Compression	H.264
Hard Drive	1TB (Included)
Hard Drive Capacity	Up to 4TB 3.5" SATA
Recording Time	Up to 365 Days (Motion Detection)
USB Interface	3 x USB 2.0 Ports (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100Mbps
Dimensions	230(W) x 210(D) x 47(H)mm
Camera	
Resolution	1080p (1920 x 1080)
Lens Angle	102°
Infrared Range	Up to 30m
IP Rating	IP66
Dimensions	146(L) x 79(H) x 65(W)mm

	Cat.	Qty 1+
8 Channel 1080p DVR Kit with 6 x 1080p PIR Cameras	QV9005	$679.00

Related Product:

1080P BULLET CAMERA

Cat.	Qty 1+
QV9007	$94.90

1080P DOME CAMERA

Cat.	Qty 1+
QV9009	$94.90

tech talk DVR vs NVR

There are key differences between NVR and DVRs. NVRs may have a higher cost, however can provide an easier install and higher quality images.

DVR (DIGITAL VIDEO RECORDER):

- Uses coax cable to run video from the camera to the DVR
- 200m maximum camera maximum distance to DVR
- Each camera needs its own power source using a secondary cable between power supply and cameras using a splitter
- Cameras are analogue with the image processing done by the DVR
- Cheaper camera cost

NVR (NETWORK VIDEO RECORDER):

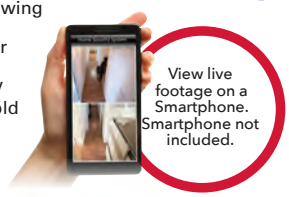
- Uses common Ethernet cables to run video and power between the camera and DVR
- 100m maximum camera distance to DVR, but can be extended using PoE enabled Ethernet Router or Switch
- Power is provided from the DVR over Ethernet (PoE). No extra cabling.
- Modern homes and offices already have Ethernet running between rooms, which makes installation easier
- Cameras are digital with the images processed in the camera.
- Higher camera cost

Swann premium 4K DVR & PIR camera kits:

Get crystal clear images in 4K (8MP) Ultra HD, a massive 4 times more pixels than 1080p (2MP), allowing you to zoom in into important details such as faces and license plates. These DVR's all feature True Detect™ PIR motion sensors on each camera designed to reliably detect people, pets, cars and other heat generating objects.

View live or playback video in HD with outstanding clarity and enhanced digital zoom on your HDTV or monitor via HDMI or VGA. View 4 cameras in quad view, one at a time or add 2 more cameras (sold separately) for 8 channel monitoring.

You also get remote login and access to push notifications via the free Apple® or Android Swann HomeSafe View App and can setup your system to take still images and save them to your personal Dropbox account in the cloud. So even if your security system gets stolen or destroyed by any burglars, you'll have peace of mind knowing you can go online and access snapshots from your security cameras.



1 YEAR WARRANTY

4K UHD

NEW TRUE DETECT™ MOTION & HEAT TRIGGER RECORDING & ALERTS

Features:

- True Detect™ PIR motion sensing technology
- Free Android & iOS® Smartphone app
- Record & playback simultaneously
- Easy QR code setup
- Motion detection, manual & scheduled recording
- Password protection
- Motion detection email & push notification alerts
- External USB backup
- Video loss alarm
- Lifetime 24/7 Swann support

Box Contents:

- 8 channel 4K NVR
- PIR cameras
- 18m video & power cables
- USB mouse
- 1m ethernet cable
- HDMI cable
- 4 Way power splitter
- Mains power adaptor
- CCTV security stickers
- Mounting hardware

	8 CHANNEL 4K DVR KIT WITH 4 X 4K PIR BULLET CAMERAS	8 CHANNEL 4K DVR KIT WITH 4 X 4K PIR DOME CAMERAS	8 CHANNEL 4K DVR KIT WITH 6 X 4K PIR CAMERAS	8 CHANNEL 4K DVR KIT WITH 8 X 4K PIR BULLET CAMERAS
DVR	**QV9051**	**QV9053**	**QV9055**	**QV9057**
Channels	8	8	8	8
Video Inputs	8	8	8	8
Audio Input	1 x RCA	1 x RCA	1 x RCA	1 x RCA
Video Output	VGA & HDMI	VGA & HDMI	VGA & HDMI	VGA & HDMI
Display Resolution	4K (3840 x 2160)	4K (3840 x 2160)	4K (3840 x 2160)	4K (3840 x 2160)
Recording Resolution	4K (3840 x 2160)	4K (3840 x 2160)	4K (3840 x 2160)	4K (3840 x 2160)
Frame Rate	9fps (Each Channel)	9fps (Each Channel)	9fps (Each Channel)	9fps (Each Channel)
Video Compression	H.265	H.265	H.265	H.265
Hard Drive	2TB (Included)	2TB (Included)	2TB (Included)	2TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA	Up to 6TB 3.5" SATA	Up to 6TB 3.5" SATA	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days (Motion Detection)	Up to 365 Days (Motion Detection)	Up to 365 Days (Motion Detection)	Up to 365 Days (Motion Detection)
USB Interface	1 x USB 3.0	1 x USB 3.0	1 x USB 3.0	1 x USB 3.0
Network Interface	Ethernet, RJ45 10/100Mbps	Ethernet, RJ45 10/100Mbps	Ethernet, RJ45 10/100Mbps	Ethernet, RJ45 10/100Mbps
Software Support	Mac / Windows	Mac / Windows	Mac / Windows	Mac / Windows
Mobile Device Support	iOS / Android	iOS / Android	iOS / Android	iOS / Android
Dimensions	255(W) x 22 (D) x 50(H)mm	255(W) x 22 (D) x 50(H)mm	255(W) X 220(D) X 50(H)mm	255(W) X 220(D) X 50(H)mm
Camera				
Resolution	4K (3840 x 2160)	4K (3840 x 2160)	4K (3840 x 2160)	4K (3840 x 2160)
Lens Angle	80°	80°	80°	80°
Infrared Range	Up to 30m	Up to 30m	Up to 30m	Up to 30m
IP Rating	IP67	IP67	IP67	IP67
Dimensions	160(L) x 70(H) x 70(W)mm	82(H) x 111(Dia.)mm	160(L) x 70(H) x 70(W)mm	160(L) x 70(H) x 70(W)mm

	Cat.	Qty 1+
8 Channel 4K DVR Kit with 4 x 4K PIR Bullet Cameras	QV9051	$1,099.00
8 Channel 4K DVR Kit with 4 x 4K PIR Dome Cameras	QV9053	$1,099.00
8 Channel 4K DVR Kit with 4 x PIR Bullet, 2 x PIR Dome Cameras (s*hown*)	QV9055	$1,449.00
8 Channel 4K DVR Kit with 8 x 4K PIR Bullet Cameras	QV9057	$1,799.00

Related Product:

ADDITIONAL 4K BULLET CAMERA

Cat.	Qty 1+
QV9058	$229.00

ADDITIONAL 4K DOME CAMERA

Cat.	Qty 1+
QV9059	$229.00

Lewis Jones likes to

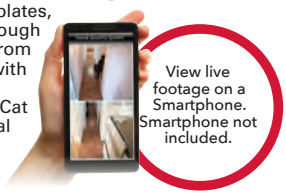
think. possible.

"In the realm of sensors, mm-wave circuits are becoming available as ICs. They will be useful in industrial automation where visually guided robotics is limited by oil and dust obscuring lenses, as they penetrate those obstructions and have enough resolution. Also in-ground mine detection."

For next day delivery, or Click and Collect, see page 5

Swann premium NVR camera kits:

Get amazing image definition with 5 Megapixel or 4K UHD cameras. Zoom in closer with incredible clarity to license plates, facial features and clothing patterns. The IP security cameras come with Ethernet cables and are weatherproof, built tough for the outdoors or indoors. Swann's True Detect™ PIR Thermal Sensing technology detects motion by heat, such as from people & cars, to trigger recording and push notifications. This virtually eliminates false triggers, like plants moving with the wind, to only capture events with security relevance. See in the dark up to 40 metres with the camera's powerful infrared night vision. Enjoy easy camera installation with Power over Ethernet (PoE) as each camera is connected via Cat 5 network cable to transmit power, video and audio. Set up the security system to save video footage to your personal Dropbox, Google Drive or Microsoft OneDrive account in the cloud. Expand your CCTV system by adding up to 8 cameras for a complete 8 channel home security system, suitable for medium-sized businesses & detached homes. For maximum resolution, add 8-megapixel 4K cameras, which have 1.7 times more pixels than 5MP.



- True Detect™ PIR motion sensing technology
- Free Android & iOS® Smartphone app
- Record & playback simultaneously
- Easy QR code setup
- Dropbox photo backup
- Power over ethernet (PoE)
- Motion detection, manual & scheduled recording
- Password protection
- External USB backup
- Lifetime 24/7 Swann support

Box Contents:

- 8 channel 4K NVR
- PIR cameras
- 18m ethernet cables (cameras)
- USB mouse
- 1m ethernet cable (NVR)
- HDMI cable
- Mains power adaptor
- CCTV security stickers
- Mounting hardware

1 YEAR WARRANTY

4K UHD

NEW TRUE DETECT™ MOTION & HEAT TRIGGER RECORDING & ALERTS

	8 CHANNEL 4K NVR KIT WITH 4 X 5MP PIR DOME CAMERAS	8 CHANNEL 4K NVR WITH 6 X 5MP PIR CAMERAS	8 CHANNEL 4K NVR KIT WITH 4 X 4K PIR BULLET CAMERAS
DVR	**QV9072**	**QV9074**	**QV9080**
Channels	8	8	8
Video Inputs	8	8	8
Audio Input	-	-	-
Video Output	VGA & HDMI	VGA & HDMI	VGA & HDMI
Display Resolution	4K (3840 x 2160) 5MP (2560 x 1960)	4K (3840 x 2160) 5MP (2560 x 1960)	4K (3840 x 2160)
Recording Resolution	4K (3840 x 2160) 5MP (2560 x 1960)	4K (3840 x 2160) 5MP (2560 x 1960)	4K (3840 x 2160)
Frame Rate	15fps (Each Channel)	15fps (Each Channel)	15fps (Each Channel)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264
Hard Drive	2TB (Included)	2TB (Included)	2TB (Included)
Hard Drive Capacity	Up to 6TB 3.5" SATA	Up to 6TB 3.5" SATA	Up to 6TB 3.5" SATA
Recording Time	Up to 365 Days	Up to 365 Days	Up to 365 Days
USB Interface	3 x USB Ports (Mouse/Backup/Upgrade)	3 x USB Ports (Mouse/Backup/Upgrade)	3 x USB Ports (Mouse/Backup/Upgrade)
Network Interface	Ethernet, RJ45 10/100Mbps	Ethernet, RJ45 10/100Mbps	Ethernet, RJ45 10/100Mbps
Software Support	Mac / Windows	Mac / Windows	Mac / Windows
Mobile Device Support	iOS / Android	iOS / Android	iOS / Android
Dimensions	310(W) x 235(D) x 53(H)mm	310(W) x 235(D) x 53(H)mm	310(W) x 235(D) x 53(H)mm
Camera			
Resolution	5MP (2560 x 1960)	5MP (2560 x 1960)	4K (3840 x 2160)
Lens Angle	82°	82°	93°
Infrared Range	Up to 40m	Up to 40m	Up to 40m
IP Rating	IP66	IP66	IP66
Dimensions	100(H) x 100(Dia)mm	100(H) x 100(Dia)mm	151(L) x 70(Dia)mm

	Cat.	Qty 1+
8 Channel 4K NVR Kit with 4 x 5MP PIR Dome Cameras	QV9072	$1,099.00
8 Channel 4K NVR Kit with 4 x 5MP PIR Bullet and 2 x PIR Dome Cameras (*shown*)	QV9074	$1,449.00
8 Channel 4K NVR Kit with 4 x 4K PIR Cameras	QV9080	$1,699.00

Related Product:

5MP BULLET CAMERA

Cat.	Qty 1+	Qty 4+
QV9076	$199.00	$169.00

5MP DOME CAMERA

Cat.	Qty 1+	Qty 4+
QV9078	$199.00	$169.00

4K BULLET CAMERA

Cat.	Qty 1+
QV9082	$289.00

4K DOME CAMERA

Cat.	Qty 1+
QV9084	$289.00

Professional Dome & Outdoor Cameras

SWANN TVI AND IP CAMERAS

The range of additional Swann TVI and IP cameras allow you to increase the security coverage of your home or business with bullet or dome cameras in HD 1080p, 5MP or UHD 4K resolution.

Bullet cameras are easily visible which means they work as visual deterrents to anyone thinking of intruding on your property and record them if they choose to ignore the warning. The dome shape cameras are a little more difficult to see but are much harder to damage in areas where they can be hit by objects such as ladders.

All the cameras feature True Detect™ PIR Thermal Sensing which is designed to reliably detect people, pets, cars and other heat generating objects. This saves you precious space on your DVR or NVR and reduces the number of push notifications you receive on your phone as it will only store events that were triggered by things you actually want to know about, not the washing on the line or a tree branch moving in the wind.

Swann's Day/Night Surveillance Cameras allow you to clearly see what is going on during the day in resolution from HD 1080p to 5MP or UHD 4K for when you want to be able to capture every detail such as number plates or writing on clothing. Then at night you can see up to 30m using their powerful infrared technology with no extra illumination.

1 YEAR WARRANTY

SPECIFICATIONS	QV9007/QV9009	QV9058/QV9059	QV9076/QV9078	QV9082/QV9084
Supports	TVI	TVI	IP	IP
Resolution	1080p (1920 x 1080)	4K (3840 x 2160)	5MP (2560 X 1920)	4K (3840 x 2160)
Lens	3.6mm	3.6mm	3.6mm	3.6mm
Lens Angle	102°	80°	82°	93°
Infrared Range	Up to 30m	Up to 30m	Up to 40m	Up to 40m
IP Rating	IP66	IP67	IP66	IP66
Power	12VDC, 1A	12VDC, 1A	PoE	PoE
Dimensions	Bullet: 146(L) x 79(H) x 65(W)mm Dome: 100(H) x 100(Dia)mm	Bullet: 160(L) x 70(H) x 70(W)mm Dome: 160(L) x 70(H) x 70(W)mm	Bullet: 151(L) x 70 (H) x 70 (W)mm Dome: 100(Dia) x 100(H)mm	Bullet: 151(L) x 70 (H) x 70 (W)mm Dome: 100(Dia) x 100(H)mm

	Cat.	Qty 1+
1080p TVI Bullet	QV9007	$94.90
1080p TVI Dome	QV9009	$94.90
4K TVI Bullet NEW LOW PRICE	QV9058	$229.00
4K TVI Dome NEW LOW PRICE	QV9059	$229.00
5MP IP Bullet NEW LOW PRICE	QV9076	$199.00
5MP IP Dome NEW LOW PRICE	QV9078	$199.00
4K IP Bullet	QV9082	$289.00
4K IP Dome	QV9084	$289.00

CAMERA IP 4K PIR BULLET FLOOD W/AUDIO

NEW

1 YEAR WARRANTY

Packed with crime prevention features this 4K Ultra HD IP security camera is the perfect addition to your Swann NVR-8580 to cover blind spots. Get security evidence and zoom in to essential footage such as license plates & faces, while night vision keeps your property protected 24/7.

The camera turns the lights on & triggers recording when it detects heat. The 2-way audio & siren let you talk back & scare off intruders. Audio capture adds another layer of security and lets you hear off-screen noises and identify voices by age, gender, accent & language.

Video analytics trigger recording & alerts with Face Detection, Line Crossing Detection, Intrusion Detection, Person Detection & others.

True Detect Thermal Sensing detects motion by heat, such as from people & cars, to trigger recording and push notifications, virtually eliminating false triggers.

The sturdy aluminium construction is built tough for the outdoors or indoors with IP66 weatherproof rating.

SPECIFICATIONS	QV9036
Night Vision Distance	150ft/45m (total darkness), 200ft/60m (with ambient light)
PIR Sensor Distance	32ft/10m
Viewing Angle	93°
Camera Usage	Indoor/ Outdoor IP66, Weatherproof
Warranty	12 Months

	Cat.	Qty 1+
	QV9036	$319.00

SWANN 4MP IP OUTDOOR CAMERA

NEW

1 YEAR WARRANTY

This state of the art security camera features a 4 Megapixel Super HD sensor. It has 75% more pixels than 1080p and enhanced digital zoom for close-up detail that has to be seen to be believed. A built-in microphone allows you to hear what's happening and the latest Infrared technology combined with the 75° viewing angle means that you see even more even at night time - up to 30m range for night vision. IP66 rating means it is weatherproof and quite at home whether indoors or outside. Suitable for use with the Swann range of Super HD Network Video Recorders.

- Aluminium body construction
- Dimensions: 66(L) x 188(W) x 66(H)mm
- Weight: 436g

SPECIFICATIONS	QV9014
Video Resolution	4MP Super HD
Night Vision Range	Up to 30m
Viewing Angle	75°
Operating Voltage	12VDC
Operating Temperature	-20° C to 50° C

	Cat.	Qty 1+
	QV9014	$229.00

For next day delivery, or Click and Collect, see page 5

Professional Dome & Outdoor Cameras

700TVL CMOS CAMERAS WITH INFRARED LEDS

A robust high resolution security camera suitable for shopping centres, schools, hotels etc. Housed in a waterproof black anodised case it features a high quality colour CMOS sensor, IR LEDs for night time illumination, and a protective sun-shade. With a composite video output for easy integration into existing surveillance setups it is also supplied with a suitable power supply and 18m combined video and power lead.

QC8653

QC8654

1 YEAR WARRANTY

SPECIFICATIONS	BOTH (QC8653/QC8654)
Supports	CVBS (Analogue)
Resolution	700TVL (792 x 698)
Lens	3.6mm
Lens Angle	72°
Infrared Range	Up to 10m
IP Rating	IP66
Power	12VDC, 500mA
Dimensions	Bull: 135(L) x 85(H) x 68(W)mm Dome: 93(Dia) x 80(H)mm

	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
700TVL	Bullet	QC8653	$94.90	$84.90	$79.90
700TVL	Dome	QC8654	$94.90	$84.90	$79.90

720P AHD CAMERAS WITH INFRARED LEDS

Featuring the latest AHD (Analogue High Definition) technology, these cameras deliver crystal clear images. Backward compatible with standard analogue equipment such as DVRs, video splitters, video balun, etc.

- Supplied with power supply & 18 metre coaxial cable fitted with BNC connectors

1 YEAR WARRANTY

QC8639

QC8637

SPECIFICATIONS	BOTH (QC8637/QC8639)
Supports	AHD
Resolution	720p (1280 x 720)
Lens	3.6mm
Lens Angle	92°
Infrared Range	Up to 10m
IP Rating	IP66
Power	12VDC, 500mA
Dimensions	Bull: 152(L) x 60(H) x 60(W)mm Dome: 93(Dia) x 80(H)mm

	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	Bullet	QC8637	$119.00	$106.90	$100.90
720p	Dome	QC8639	$119.00	$106.90	$100.90

1080P AHD/TVI CAMERAS WITH INFRARED LEDS

This camera provides full 1080p high definition and suitable for indoor or outdoor use. It's uniquely compatible with AHD, TVI, CVI and CVBS (Analogue) transmission, for fantastic compatibility with many DVRs. It features a weatherproof IP66 rated case and 30 infrared LEDs for enhanced night vision. Includes a 18m video & power cable and mains power adaptor.

1 YEAR WARRANTY

QC8685

QC8687

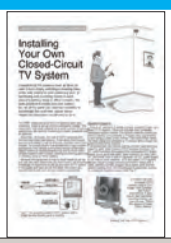
SPECIFICATIONS	BOTH (QC8685/QC8687)
Supports	AHD
Resolution	1080p (1920 x 1080)
Lens	3.6mm
Lens Angle	92°
Infrared Range	Up to 15m
IP Rating	IP66
Power	12VDC, 1A
Dimensions	Bull: 165(L) x 75(Dia)mm Dome: 110(Dia) x 100(H)mm

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	QC8685	$149.00	$133.90	$125.90
Dome	QC8687	$149.00	$133.90	$125.90

Installation Guide

CCTV INSTALLATION GUIDE

This guide explains the various pieces of equipment required, the options available for installation and the different methods of viewing and recording the images. Topics cover camera types, lenses, light levels, power supplies, camera positioning, switchers, monitors and recorders.



	Cat.	Qty 1+
8 pages, A4	BI8206	$2.00

tech talk IP or Network Surveillance

IP surveillance is a digitized and network version of closed circuit television (CCTV). In an IP surveillance system, an IP camera records video footage and the resulting content is distributed over an IP (Internet Protocol) network.

Digitisation offers several benefits over analogue CCTV including:

- Improved search capabilities & greater ease of use
- Better quality images and no degradation of content over time
- The ability to record and play at the same time
- The ability to compress content for improved storage

Adding networking capabilities to digital CCTV provides additional benefits, including:

- Improved ability for remote viewing & control. Anyone on the network with password access can potentially see video from any camera connected to the network.
- IP Storage makes it possible to store data in any geographical location
- Greater ease of distribution. An image of a crime suspect, for example, can immediately be distributed to officials
- The ability to connect to email and other communications systems so that alerts can be sent automatically

product data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

Wireless Camera & Receiver Kit

720P AHD WIRELESS RECEIVER & CAMERA KIT

This is a universal AHD wireless camera and receiver kit, enabling you to add a wireless camera to any existing 720p or 1080p AHD compatible DVR. Using digital 2.4GHz transmission, it allows up to 100m line of sight range. The addition of a wireless camera expands the versatility of your existing AHD compatible DVR, without the need for other upgrades. The camera itself is a weatherproof bullet camera with infrared LEDs, providing clear 720p video. Includes 2 x mains power adaptors and mounting hardware.

RECEIVER	QC8663
Frequency	2.4GHz Digital
Wireless Range	Up to 100m
Resolution	720p (1280 x 720)
Power	9VDC, 600mA
Dimensions	80(L) x 55(W) x 15(H)mm
CAMERA	
Resolution	720p (1280 x 720)
Frame Rate	15fps
Lens	3.6mm
Lens Angle	70°
Infrared	24 x IR LEDs
Infrared Range	Up to 15m
IP Rating	IP66
Power	9VDC, 600mA
Dimensions	164(L) x 64(Dia.)mm (Including Bracket)

	Cat.	Qty 1+	Qty 2+
720p AHD Wireless	QC8663	$229.00	$199.00

Mini Wi-Fi Camera

1080P WI-FI MINIATURE IP CAMERA WITH IR ILLUMINATION

This tiny camera measures only 42mm in diameter, and thanks to its rechargeable battery, it can be conveniently positioned in an area where mains power is not available. Stream and record video in HD over your Wi-Fi network or directly to your Smartphone (iPhone or Android device) and laptop on the go. Recordings can also be saved onto an internal microSD card (not included), which you can access remotely or plug into a computer to review footage. Infrared LEDs enable you to record in low light conditions, and a 150° angled lens provides a wide field of view. Recordings can be set to start when motion is detected from up to 6m away, which extends the battery life to over 1 hour of total recording. Various mounting options are provided to suit your application, as well as a USB charging cable.

- 1080p HD Recording
- Rechargeable
- Wi-Fi

SPECIFICATIONS	QC3862
Resolution:	Up to 1080p
Video Compression:	H.264
Video Format:	AVI
Frame Rate:	25fps
Viewing Angle:	150°
Video Duration:	Over 1 Hour
Storage:	Requires microSD card
Dimensions:	42(Dia.) x 22(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QC3862	$99.90	$89.90	$84.90

tech talk Surveillance Resolutions Explained

CIF: You'll still find CIF quality equipment available, but not nearly as common as it once was, as higher resolution equipment continues to fall in price. It provides 352 x 240 (0.1 Megapixels) resolution. We no longer carry any CIF resolution equipment.

D1: You'll find D1 resolution offered on a number of our low-cost solutions. It provides 704 x 480 (0.3 Megapixels).

960H: Providing reasonable resolution but still in a value price range. 928 x 480 (0.5 Megapixels). 960h is the same vertical resolution as D1, however it has a widescreen aspect ratio, providing more pixels overall.

720P HIGH DEFINITION: 720p was the first resolution classified as high definition, even for televisions. Now almost everything is full high definition, but high definition is still used in many surveillance cameras 1280 x 720 (1 Megapixel).

1080P FULL HIGH DEFINITION: This is the most common TV standard, and is considered "Full High Definition". 1920 x 1080 (2 Megapixels). One major benefit of 1080p hardware is it matches pixel-for-pixel, many off-the-shelf displays designed for computers or TV.

4 MEGAPIXEL ULTRA HIGH DEFINITION: Providing a marginal increase in resolution over Full HD 1080p, with a resolution of 2560 x 1440 pixels. It provides a marginal increase in resolution over Full High Definition 1080p.

5 MEGAPIXEL ULTRA HIGH DEFINITION:
Super high definition, 2560 x 1920 resolution, very good level of detail from images.

4K ULTRA HIGH DEFINITION
Highest resolution available today, 3840 x 2160 four times more pixels than 1080p, provides crystal clear video with very high detail

WHAT ABOUT TV LINES? TV lines came about when most recording was done with analogue hardware, with tape-storage being the common method. The TV Lines / TVL standard is falling out of favour to Megapixel specifications, mostly because once we hit 1000TVL, it all started getting a little difficult to track. For a basis of comparison however, a 600TVL resolution is approximately 0.4 megapixels, or 1000TVL is approximately equal to 0.9 megapixels. So you can see once we enter high definition territory (2 megapixels or more), the TVL standard becomes a little difficult to manage.

IN SUMMARY: The quality of resolution you need is really determined by your own specific requirements. While "more is better" when it comes to resolution in many ways, consider your own budget and circumstances to find a balance between cost and quality. If you would still like to chat to someone very knowledgeable about surveillance and resolution, find one of our friendly team who can help you find what you need.

To learn more visit www.jaycar.co.nz/resolutionmatters

Resolution Relative Size Differences

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For next day delivery, or Click and Collect, see page 5

Design Your Custom Surveillance & Security System

Wireless Surveillance & Security System

If you live in a rental property or you're unable to run wires through your premises then this surveillance and security system is for you. It is even ideal for temporary security applications such as tradeshow events and pop-up stores.

At the heart of the system is the QC3870, which is a HD Camera that connects to a Wi-Fi network, enabling you can see what is going on remotely from anywhere in the world using your Smartphone. The built-in PIR sensor can trigger a siren when movement is detected and send you an alert to your phone.

A wireless PIR, reed switch and panic button sold separately can be connected to the QC3870 to become a custom security system. An unlimited amount of sensors can be connected.

Read more about each product below.

1080P WI-FI IP CAMERA WITH SECURITY ALARM

This surveillance camera can work stand-alone to record audio and video in 1080p high-definition, or expanded with sensors (sold separately) to turn it into a security system. It features a magnetic base to quickly adhere to any metal surface and Wi-Fi connectivity for easy installation. Plug in your microSD card (up to 128GB) and it's a full recording system that you can leave perpetually recording, or set to motion-detection mode. Once the built-in PIR detects movement, or connected wireless PIR, reed or panic switch is triggered, the camera will send 30-seconds of audio and video to your Smartphone! The free Android & iOS™ app provides flexible control and monitoring. What's more is the provision of 2-way audio communication, meaning you can talk to the intruder "You are being watched!", or use it more like a doorphone for less sinister visitors "Sorry, I'm not home right now". Infrared LEDs mean it works in just about any lighting conditions too. Setup and configuration is easy, and there's Windows software provided if you prefer to access via a computer. Powered using the included USB mains power adaptor.

- Supports additional security sensors (QC3872/4/7)
- PIR Motion Detection & Manual Recording
- microSD Card & Smartphone Recording
- Video snippet with alert to your Smartphone
- Free Android & iOS™ Smartphone App
- Internal Microphone & Speaker
- 2-Way Audio Communication
- Windows PC Software

NEXTECH

GET IT ON Google play | Available on the App Store

SPECIFICATIONS	QC3870
Image Sensor	1/4" CMOS
Resolution	1080p
Frame Rate	25fps
Viewing Angle	115°
Infrared	14 x IR LEDs
Storage	Up to 128GB microSD Card
Power Consumption	1A
Power Supply	5VDC, 1A
Dimensions	122(H) x 48(W) x 25(D)mm (Excluding Base)

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QC3870	$149.00	$133.90	$125.90

WIRELESS PANIC BUTTON

Connects wirelessly with the QC3870 Wi-Fi Camera System, to trigger the security system in cases of duress. The switch is battery powered and can be fixed in an easily accessible location using the provided double-sided tape. Powered from a 27A 12V battery so there is no need for any wiring.

- Blue LED illumination when pressed
- Long standby time

NEXTECH

	Cat.	Qty 1+	Qty 2+	Qty 4+
Suits QC3870	QC3872	$22.90	$20.90	$19.90

WIRELESS SENSORS

Designed to connect wirelessly with the QC3870 Wi-Fi Camera System, to provide added security around the home or office. The Reed Switch unit is perfect for a window or door frame, while the PIR unit is great for detecting movement in a room Powered from a CR123A battery so there is no need for any wiring.

- Red LED notification light
- Long standby time
- Notification push with alarm tone
- 1 year battery life (approx)

NEXTECH

	Cat.	Qty 1+	Qty 2+	Qty 4+
Reed Switch	QC3874	$22.90	$20.90	$19.90
PIR Sensor	QC3876	$33.90	$29.90	$27.90

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Wi-Fi IP Cameras

1080P WI-FI IP CAMERA WITH PAN/TILT

NEW

1 YEAR WARRANTY

Ideal stand-alone surveillance for a home or small office. The camera has on-board microSD card storage for self-contained recording in high-definition. Connecting to your Wi-Fi network is made easy with the one-step connection, which then allows you to use the free iOS™ and Android app to remotely access the camera, pan, tilt, review footage, and adjust camera parameters, usuing your Smartphone, iPad or Android tablet. Other features include IR-Cut for clearer recording in daylight, IR LEDs for night vision, and built-in motion detection to alert you of an intrusion, along with 30 seconds of video

- One-step for Wi-Fi connection
- Free Android & iOS™ Smartphone App
- microSD Card & Smartphone Recording
- 2 Way Audio- Encryption video lock
- Motion detection with notification push and 30s alert video to your device

Wi-Fi

Available on the App Store

GET IT ON Google play

SPECIFICATIONS	QC3858
Image Sensor	1/4" High Definition Colour CMOS
Lens	3.6mm
Viewing Angle	75°
Resolution	1080p (1920 x 1080)
Pan/Tilt Angle	Horizontal 355°, Vertical 110°
Storage	Up to 128GB microSD Card (Not Included)
Infrared Range	Up to 10m
Detection Alarm	Notification push with alarm tone, 30s alert video push
Wi-Fi	IEEE802.11b/g/n 2.4GHz
Dimensions	108(L) x 70(Dia.)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p Pan / Tilt	QC3858	$149.00	$133.90	$125.90

1080P WI-FI IP CAMERA WITH LED SPOTLIGHTS

Keep an eye on your property with this easy-to-install wireless IP camera. Remotely access the camera from your Smartphone to see what is happening live or to review footage on the microSD card. Infrared LEDs automatically turn on when darkness falls for night vision, and four bright LED spotlights can be scheduled to illuminate at a time you choose. Ideal for illuminating a path for visitors, to deter would-be thieves, and also to enable the camera to record in colour at night. Connecting to your Wi-Fi network is simple with sound pairing setup, and a free app is available on Google Play and the Apple Store for Android or Apple Smartphones. Other features include two-way audio to talk to visitors or intruders, and alarm function that sounds an alarm for 5 seconds if movement is detected, then sends an alert to your phone. The camera can be used outdoors, however, needs to be protected against rain or direct sunlight.

NEW

- 1080p HD recording
- Easy Sound Pairing Setup
- Free Android & iOS™ Smartphone App
- Two-Way Audio
- microSD Card & Smartphone Recording
- Encryption video lock
- Supports 15 accounts
- Motion detection with notification push and 30s alert video to your device

Available on the App Store

GET IT ON Google play

SPECIFICATIONS	QC3857
Resolution	1080p
Storage	Supports MicroSD cards up to 128GB
Wi-Fi	2.4GHz
App Compatibility	Android 4.0+, iOS 8.0+
Power	12VDC, 1A
Power Consumption	500mA
Dimensions	183(L) x 70(W) x 66(D)mm

1 YEAR WARRANTY

Wi-Fi

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QC3857	$199.00	$178.90	$168.90

1080P WI-FI IP CAMERA WITH IR ILLUMINATION

NEW

1 YEAR WARRANTY

With the convenience of Wi-Fi connectivity, this high-definition outdoor camera makes installation a breeze. One of the best features however, is the on-board microSD card storage for self-contained recording functionality. It's easily connected to your Wi-Fi network with simple sound pairing setup, and includes built-in motion detection recording. Using the free iOS™ and Android Smartphone app you can connect to the camera and adjust camera parameters, review footage, and so much more. Other features include IR-Cut for clearer recording in daylight, IR LEDs for night vision, and built-in motion detection to alert you of an intrusion, along with 30 seconds of video.

- 1080P HD recording
- One-step for Wi-Fi connection
- Free Android & iOS™ Smartphone App
- microSD Card & Smartphone Recording
- 2 Way Audio- Encryption video lock
- Supports 15 accounts
- Motion detection with notification push and 30s alert video to your device

SPECIFICATIONS	QC3856
Image Sensor	1/4" High Definition Colour CMOS
Lens	3.6mm
Viewing Angle	75°
Resolution	1080p (1920 x 1080)
Megapixel	2.0
Video Compression	H.264
Infrared	35 x IR LEDs
Infrared Range	Up to 25m
Storage	Up to 128GB microSD Card (Not Included)
IP Rating	IP66
Wi-Fi	IEEE802.11b/g/n 2.4GHz
Power Consumption	500mA
Power Supply	12VDC, 1A
Dimensions	202(L) x 65(Dia.)mm (Including Bracket)

Wi-Fi

Available on the App Store

GET IT ON Google play

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QC3856	$149.00	$133.90	$125.90

720P WI-FI IP CAMERA WITH INFRARED LEDS

Intelligently engineered with ultra-easy pairing setup, you can get installed and configured in minutes. Utilise the free Android or iOS™ app, or software for a Windows PC. It provides high quality 720p video, and 2-way audio communication - so it can be used for access control functions. IR LEDs provide excellent functionality at night too. Record perpetually or using motion detection. Local microSD card storage, or stream directly to your smartphone and store it there. Includes USB mains power adaptor and USB charging cable.

1 YEAR WARRANTY

- Easy sound pairing setup
- Free Android & iOS™ Smartphone app
- Windows PC software
- USB powered
- 2 way audio communication
- PIR motion detection & manual recording
- Internal microphone & speaker
- microSD card & Smartphone recording

View live footage on a Smartphone. Smartphone not included.

Wi-Fi

Available on the App Store

GET IT ON Google play

SPECIFICATIONS	QC3849
Image Sensor	1/4" CMOS
Resolution	720p (1280 x 720)
Megapixel	1.0
Frame Rate	25fps
Viewing Angle	110°
Video Compression	H.264
Video Format	.264
Infrared	10 x IR LEDs
Storage	Up to 64GB microSD Card
Power Consumption	500mA
Power Supply	5VDC, 1A
Dimensions	108(H) x 60(W) x 46(D)mm (Excluding Base)

	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC3849	$79.90	$71.90	$67.90

For next day delivery, or Click and Collect, see page 5

Dummy Cameras

DUMMY BULLET CAMERA

A realistic looking imitation camera that deters thieves and requires no wiring or other difficulty to install. It includes a CCTV warning sticker for added deterrent and mounting hardware.

- Dimensions: 185(W) x 85(H) x 75(D)mm
- These devices are known to have a strong deterrent effect

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	LA5338	$16.90	$14.90	$13.90

DUMMY CAMERA THEFT PREVENTION KIT

Warn off thieves with this theft deterrent pack which includes 2 x bullet cameras, 2 x dome cameras and 4 x CCTV security stickers. The bullet cameras include 23 IR LEDs and one flashing LED for each dome camera to simulate realistic looking cameras. Everything you need in one pack to discourage thieves. Perfect for homes, offices, schools etc.

- Batteries required:
  Dome - 3 x AA (not included)
  Bullet - 2 x AAA (not included)
- Dimensions: 170(L) x 58(Dia)mm (Bullet Camera)
  125(Dia) x 95(H)mm (Dome Camera)

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x Bullet, 2 x Dome	LA5336	$74.90	$67.40	$63.40

DUMMY DOME CAMERA WITH FLASHING LED & CCTV STICKER

A simple and effective visual deterrent. This fake but realistic-looking dome camera features a high brightness flashing red 3mm LED, and is supplied with a yellow CCTV warning sticker. Great for home, office, schools or any location to discourage thieves.

- Requires 3 x AA batteries
- Includes mounting hardware
- Sticker dimensions: 110 x 110mm
- Camera dimensions: 127(Dia) x 90(H)mm

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Dome	LA5332	$18.90	$16.70	$15.70

CONCORD DUMMY BULLET CAMERA

NEW

This Concord branded dummy camera looks almost exactly like the real thing, at a fraction of the price. Great for home, office, schools or any location to discourage thieves. Simple and effective. Includes mounting hardware.

- Dimensions: 70(Dia) x 140(D)mm

CONCORD

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
PIR Bullet	LA5340	$18.90	$16.90	$15.90

DUMMY IR CAMERA

Visible deterrence is probably the most important aspect of security. Most criminals aren't completely stupid - if your premises looks like it has CCTV surveillance, they'll move on to the place that doesn't. These dummy cameras look totally convincing - they have genuine-looking IR LEDs and a real LED that adds to the illusion. Add a couple of warning signs and the baddies will never know the difference.

- Requires 2 x AA batteries
- Mounting hardware included
- UV Stabilised
- Dimensions: 175(L) x 85(Dia)mm

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
Bullet	LA5325	$29.90	$26.90	$25.40

DUMMY CAMERA WITH LED SPOTLIGHTS

NEW

This dummy camera looks just like a security camera but features a motion activated alarm and bright spotlight to deter intruders. The built-in 120° movement sensor can detect movement up to 6m away, and be set to either spotlight only, alarm only or both. This is great for safely lighting the way to your front door when you return home at night. The internal 120dB siren is quite loud and sure to draw attention and hopefully send the intruder running. Being battery powered means you can install it in a location where mains power is not available. Other features include a dusk sensor that enables the light and siren to work only at night, and the remote control includes a panic button.

- Movement Sensor
- Loud 120dB Siren
- Weatherproof

Type	Cat.	Qty 1+	Qty 2+	Qty 4+
PIR Spotlight Bullet	LA5342	$39.90	$35.90	$33.90

Warning Signs & Stickers

SURVEILLANCE WARNING STICKERS

Make sure people entering your premises know that they will be under video surveillance with this unambiguous message.

INSIDE SURVEILLANCE WARNING STICKER

- UV stabilised for long life
- Black printing on a clear background
- Sticks to inside of window
- Dimensions: 80(W) x 40(H)mm

OUTSIDE SURVEILLANCE WARNING STICKER

- Silver colour
- Sticks to outside of window
- Dimensions: 80(W) x 40(H)mm

LARGE OUTSIDE SURVEILLANCE WARNING STICKER

- Black lettering on white background
- Sticks to outside of window
- Dimensions: 120(W) x 50(H)mm

Type	Size	Cat.	Qty 1+	Qty 2+	Qty 4+
Small Inside	80 x 40mm	LA5106	$3.90	$3.10	$2.70
Small Outside	80 x 40mm	LA5107	$3.90	$3.10	$2.70
Large Outside	120 x 50mm	LA5108	$4.90	$4.10	$3.70

CCTV STICKER - 120 X 120MM

Visible deterrent to intruders. Bright yellow to attract attention. Partner with a dummy camera or two for a complete faux security system or just to warn that the real thing is installed.

	Cat.	Qty 1+	Qty 4+	Qty 8+
120(W) x 120(H)mm	LA5101	$5.90	$5.30	$4.70

SURVEILLANCE WARNING SIGN 300 X 300MM

Visual deterrents are one of the most effective security measures you can use. This sign will ward off thieves and let them know you have state-of-the-art surveillance on your property even if you don't. It's made of acrylic, so it's lightweight and durable.

	Cat.	Qty 1+	Qty 2+	Qty 4+
300(W) x 300(H)mm	LA5115	$18.90	$16.70	$15.70

CCTV WARNING SIGN

Prominent warning sign for CCTV or dummy surveillance applications. Made from acrylic for durabilty.

	Cat.	Qty 1+	Qty 4+	Qty 8+
300(W) x 210(H)mm	LA5114	$18.90	$16.70	$14.70

CCTV Leads & Accessories

CCTV CAMERA POWER EXTENSION LEAD

Extend the plugpack lead for CCD cameras.

- Consists of 2.1mm male to female
- Plug OD 5.5mm

Length	Cat.	Qty 1+	Qty 2+	Qty 4+
5m	WQ7285	$11.90	$10.70	$9.90

DC POWER LEADS - 2.1MM PLUGS TO SOCKET

Run multiple devices from a single power supply or extend the low voltage cable between a plugpack and a device. Ideal for surveillance and available in a range of versions to suit many other applications. All cables are pre-made with moulded DC plugs and sockets.

- Three types available.
- DC Plug / Socket Dimensions: 2.1(ID) x 5.5(OD) x 10(L)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1 Socket to 2 plugs - 200mm	WQ7280	$9.90	$8.70	$8.20
1 Socket to 2 plugs - 2m	WQ7284	$11.90	$10.90	$10.30
1 Socket to 4 plugs - 800mm	WQ7281	$12.90	$11.30	$10.90

CCTV VIDEO & POWER CABLE

- BNC terminated
- Male DC plug on one end, female DC socket at the other
- 18m length

Length	Cat.	Qty 1+	Qty 2+	Qty 4+
18m	WQ7279	$24.90	$22.40	$19.90

CCTV CAMERA EXTENSION LEADS

The easy way to extend the length of CCD camera cables. The leads have 3 joined cables, BNC plug to plug, RCA plug to plug, and DC power male to female. The video cable used is quality RG59U, and the power cable for the shorter lengths is 24 gauge, and the 2 longer lengths are 18 gauge.

1 YEAR WARRANTY

Length	Cat.	Qty 1+	Qty 2+	Qty 4+
5m	WQ7275	$24.90	$22.40	$21.10
10m	WQ7276	$42.90	$38.60	$36.40
15m	WQ7277	$54.90	$49.40	$46.40
20m	WQ7278	$74.90	$67.40	$63.40

EXTRA LONG CCTV VIDEO & POWER EXTENSION CABLES

Great for connecting surveillance cameras. Includes BNC (video) and DC (power) connectors, for no-fuss installation of AHD/TVI type cameras. Quality video transmission, and available in two lengths for various installations.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
30m	WQ7283	$22.90	$20.90	$17.90
60m	WQ7287	$45.90	$40.90	$38.90

CCTV VIDEO & POWER EXTENSION CABLE

Universally compatible BNC security camera extension leads suitable for analogue (AHD/TVI) cameras. Weatherproof when sheltered, and white in colour to suit home and office interiors. Includes BNC female adaptor for attaching to existing cables.

1 YEAR WARRANTY

Swann

	Cat.	Qty 1+
30m	QV9018	$36.90
60m	QV9020	$59.90

2.1MM DC CONNECTORS

PA3711

PA3713

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	PA3711	$6.90	$6.20	$5.50
Socket - Screw Terminals	PA3713	$6.90	$6.20	$5.50

BNC WITH TERMINALS

	Cat.	Qty 1+	Qty 4+	Qty 10+
Screw Terminal	PA3715	$6.90	$6.20	$5.50

BNC ADAPTORS

PA3665

PA3663

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
BNC Plug to BNC Plug Adaptor	PA3665	$5.90	$5.20	$4.70
BNC Plug to BNC Socket R/A	PA3663	$5.90	$5.20	$4.70

BNC PLUG TO BNC PLUG

RG-59U coaxial cable

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV7300	$11.90	$10.70	$9.50

MICROPHONE/AMP FOR CCTV CAMERAS

Easy add-on mini microphone with built-in amp for cameras that require an audio function. Simple to install and ideal for all surveillance applications.

- High sensitivity microphone (-65dB)
- 12VDC operation

Length	Cat.	Qty 1+	Qty 2+	Qty 4+
500m	QC3434	$29.90	$26.90	$25.40

EXTERNAL CCTV CAMERA HOUSING MOUNTING BRACKET

This heavy-duty aluminium bracket is designed to mount large indoor/outdoor professional cameras. It is suitable for either internal or external use and the camera angle is fully adjustable. Mounting screws and wall plugs included.

- Maximum payload 8kg
- Supplied in silver finish
- Bracket height is 300mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC3337	$16.90	$14.90	$13.90

Camera Power Supplies

AC/DC - DC CONVERTER 24 - 12VDC 1A

Trying to get power for CCTV and security cameras over a long run without losses is challenging to say the least. Solve the problem quickly and easily by sending 24VAC down the long run, then converting it to 12VDC when you get it where you need it. Connection is by screw terminals.

SPECIFICATIONS	MP3350
Input	20 - 28VAC, 16 - 30VDC
Output	12VDC regulated
Output Current	1A max
Dimensions	90(L) x 25(W) x 25(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC/24VDC 1A	MP3350	$48.90	$44.00	$39.10

find out more in store

Our staff offer friendly and helpful service. We're here to help.

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CCD CAMERA POWER SUPPLIES

12VDC regulated plugpack ideal for CCD cameras.

- Terminates to a 2.1mm ID / 5.5mm OD DC plug, centre positive

	Cat.	Qty 1+	Qty 5+	Qty 10+
12VDC 500mA	MP3011	$24.90	$22.40	$19.90
12VDC 1.5A	MP3486	$31.90	$28.70	$25.50

Baluns

BNC TO CAT5E/6 UTP AHD VIDEO BALUN KIT

Extend the transmission distance of your CCTV cabling without the need for a video amplifier. The balun accepts all composite video signals such as AHD, TVI and CVI. To use the baluns, strip away your UTP Cat5 cable at the ends and use a stranded pair connecting one wire to the positive terminal and the other to the negative terminal. Note the colour of the wires used and repeat the process at the other end. This kit includes two baluns; one to act as the transmitter and the other the receiver. It is suitable for CCTV setups, multimedia presentations and video conferencing.

SPECIFICATIONS	QC3667
Network Cable	UTP Cat6, Cat5e, Cat5
Transmission Distance	Up to 400m
Camera Support	AHD, TVI, CVI, Analogue
Dimensions	38(L) x 19(H) x 12(W)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC3667	$18.90	$17.00	$16.00

BNC/RCA/POWER TO CAT5E/6 AHD VIDEO BALUN KIT

Simplify your CCTV installation by combining composite video, audio and power for transmission over one UTP Cat6, 5 or 5e cable. The balun accepts all composite video signals such as AHD, TVI and CVI. This kit includes two baluns; one to act as the transmitter and the other the receiver. It is suitable for CCTV setups, multimedia presentations and video conferencing.

SPECIFICATIONS	QC3669
Network Cable	UTP Cat6, Cat5e, Cat5
Transmission Distance	Up to 300m
Camera Support	AHD, TVI, CVI, Analogue
DC Connection	2.1mm
Supported Voltage	12-24VDC
Dimensions	60(L) x 28(H) x 19(W)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC3669	$36.90	$33.20	$31.30

Power-Over-Ethernet

POWER-OVER-ETHERNET (POE) PASSIVE KIT

PoE allows transfer of electrical power, along with data, over twisted pair cables. Finding a power supply is a common obstacle in LAN installations: PoE allows you to power wireless access points or other equipment via a Cat 5 cable without the need to have a separate power source available.

- You simply connect a plugpack of the required voltage via the 2.1mm DC connector, then tape it where you need it at the other end

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8410	$18.90	$17.00	$15.10

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GIGABIT POE INJECTOR

1 YEAR WARRANTY

Power Over Ethernet (PoE) devices are becoming more commonplace, such as IP cameras, telephones, and many more small devices which require a small amount of power to operate. However most conventional Ethernet switches do not natively support PoE. This device adds the power inline to a single network cable, working up to 100m, so you don't need mains power down the line at the device. It supports up to gigabit network throughput for ultra-fast connectivity, and is PoE IEEE 802.3at compliant

SPECIFICATIONS	YN-8040
Input	1 x RJ45, 1 x AC Power Input
Output	1 x RJ45
Network	Gigabit up to 100m
PoE Output Power	52V @ 30W max
PoE Standard	IEEE 802.3at
Input Voltage	100-240VAC
Power Demand	35W max
PoE Power Supply End-Span	1/2,3/6 spare line pair (default); mid-span: 4/5, 7/8 data line pair(can be customised)
Dimensions	118(W) x 60(D) x 38(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8040	$69.90	$62.90	$58.90

5 PORT POE SWITCH

Power Over Ethernet (PoE) simplifies installation for IP telephones, routers, IP cameras, and more. It reduces the need for mains power at each IP camera location, for instance, powering them from a central supply. Suitable for use up to 100m, it provides up to 30W per PoE port.

SPECIFICATIONS	YN8074
Ports	1 x 10/100 RJ45 4 x 10/100 RJ45 High Power PoE
PoE Port Power	30W (per port)
Max Combined PoE Power	65W
Backplane Bandwidth	1.6Gbps (non-blocking)
Max PoE Distance	100m
Network Protocols and Standards	IEEE 802.3i 10BASET, IEEE 802.3u 100BASETX IEEE 802.3x Flow Control, IEEE 802.3af DTE Power via MDI IEEE 802.3at
Power Input	100-240VAC @ 50/60Hz
Dimensions	118(W) x 85(D) x 27(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100Mpbs	YN8074	$139.00	$124.90	$117.90

10 PORT GIGABIT POE NETWORK SWITCH

PoE simplifies power delivery for IP surveillance, telephone, and many other systems. This is a powerful gigabit switch with 8 x PoE-enabled and 2 x standard gigabit ports. It can deliver up to 130W of power (max 30W to a single port), which is loads of power for just about any PoE-enabled device you may have. Ultra-fast gigabit network also enables fast data transfer, critical for high resolution IP cameras and data-intensive systems, and is also very useful for providing PoE to access points and switches which are also distributing the connection. Automatic PoE detection, fully compatible with non-PoE devices. Includes mains power adaptor and mounting bracket.

SPECIFICATIONS	YN8049
Ports:	8 x PoE (RJ45) 2 x Uplink (RJ45)
Power Output:	30W Per Port (Max) 15.4W Per Port (Across 8 Ports) 130W (Total)
PoE Standards:	IEEE 802.3at, IEEE 802.3af
Network Speed:	10/100/1000Mbps
Transmission Distance:	Up to 100m
Power Supply:	52VDC, 2.5A (Mains adaptor included)
Dimensions:	189(W) x 102(D) x 28(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
10/100/1000Mbps	YN8049	$259.00	$229.00	$219.00

Power-Over-Ethernet CONTINUED

POE POWER SPLITTER

Power Over Ethernet (PoE) is one of the most convenient sources of sending power to remote devices available. But what if your device doesn't support PoE, but your network switch provides the functionality? This device splits the PoE into a regular ethernet, and 12VDC plug. This allows you to power small network switches, IP cameras, and all sorts of other devices which may not support PoE natively. Providing 10/100Mbps ethernet speeds and up to 1.25A to the 12V plug.

SPECIFICATIONS	YN8414
PoE Voltage Input	44-57V
Voltage Output	12VDC @ 1.25A Max
Connectors	1x RJ45 PoE socket, 1x RJ45 ethernet plug, 1x DC plug
Protocol	IEEE 802.3 i 10 BASE-T, IEEE 802.3u 100 BASE-TX, IEEE 802.3 x Flow Control, IEEE 802.3af Power over Ethernet
Data Rate	10/100Mbps
Dimensions	88(L) x 30(W) x 26(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 4+
YN8414	$22.90	$20.90	$19.90

Surveillance Accessories

CAMERA DETECTOR

Protect your privacy! Covert cameras and listening device are nearly impossible to spot by the naked eye. This handy little unit will detect hidden wired and wireless cameras through the units lens finder. The 6 pulsing LEDs reveals the location of a camera by illuminating its lens when you look through the lens viewer.
Also features a built-in wireless RF detector that provides audible (buzzer) and visual (LED) signal strength indication. Great for detecting wireless transmitters and eavesdropping devices. It even comes with a set of earphones for complete discrete bug detection.

- Requires 2 x AAA batteries (use our SB2426).

SPECIFICATIONS	QC3506
Laser Detection Range	0.1 - 10m
RF Detection Range	0 - 10m
RF Frequency Range	1.0MHz - 6.5GHz
Dimensions	85(H) x 56(W) x 18(D)mm

Cat.	Qty 1+	Qty 4+	Qty 8+
QC3506	$125.00	$110.90	$98.90

AHD TO HDMI CONVERTER

Analogue High Definition (AHD) is an amazing technology allowing high definition video to be transmitted over long distances. This unit allows you to monitor an AHD or analogue camera on your TV, computer monitor or projector using standard HDMI.
It also provides AHD pass-through so the feed can still run to your DVR or other surveillance equipment. Switchable between 1080p and 720p resolution.

SPECIFICATIONS	AC1778
Inputs	1 x BNC (AHD)
Outputs	1 x HDMI, 1 x BNC (AHD)
AHD Input Resolution	1080p @ 30Hz, 720p @ 60/50/30Hz
AHD Output Resolution	1080p @ 30Hz, 720p @ 60/50/30Hz
HDMI Resolution	1080p @ 60Hz, 720p @ 60Hz
AHD Cable Distance	Up to 500m
Power Supply	5VDC, 1A
Dimensions	90(W) x 58(D) x 26(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1778	$139.00	$124.90	$117.90

LONG RANGE INFRARED SPOTLIGHT

CMOS and CCD surveillance cameras are often designed with only minimal night vision range or sometimes without infrared LEDs at all. This high-power spotlight will add or increase your existing surveillance cameras infrared viewing range of up to 50 metres. The six built-in LEDs switch on automatically at night or when dark conditions are detected. The compact size of the spotlight is ideal where unobtrusive surveillance in low light areas is preferred, such as warehouses, driveways, backyards, alleyways and boundary line fences. Includes a 12VDC power supply and mounting hardware.

- Automatic day/night operation
- 180° bracket adjustment

SPECIFICATIONS	QC3654
Infrared LEDs	6 x 3W
Infrared Angle	60°
Effective Infrared Range	Up to 50m
IP Rating	IP65 Weatherproof
Power Supply	12VDC, 1.5A
Dimensions	165(L) x 84(Dia)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 4+
QC3654	$99.90	$89.90	$84.90

19.5" LED SURVEILLANCE MONITOR

A quality monitor is essential for any surveillance installation. The high resolution display will give you clear vision, with more than enough room to show a quad-display if you're viewing a DVR or other quad-display source. The LED backlight helps reduce heat and increase longevity of the monitor too.
Audio in/out is provided so you don't need separate speakers to hear what's going on, if you're monitoring audio also. It is powered directly from mains power (mains to IEC cable supplied), and even includes a HDMI cable.

SPECIFICATIONS	QM3580
Panel Size	19.5"
Aspect Ratio	16:9
Resolution	1600 x 900
Brightness	200cd/m²
Response Time	5ms
Contrast Ratio	1000:1
Inputs	HDMI, VGA, BNC, S-Video, and a 3.5mm Audio
Outputs	BNC and a 3.5mm Audio
Speakers	2 x 2W
Dimensions	350(H) x 467(W) x 164(D)mm (Including Base)

1 YEAR WARRANTY

	Cat.	Qty 1+
19.5"	QM3580	$309.00

3.5" PURPLE 2TB SURVEILLANCE HDD

1 YEAR WARRANTY

The purple range of western digital drives are built for 24/7 always on surveillance. They are drop in replacements for desktop drives which aren't designed for the harsh always-on high-definition surveillance environment. This range has been specifically engineered for a high level of compatibility with DVR systems and are equipped with AllFrame technology which reduces frame loss, improves playback and increases number of drive bays supported. With exclusive IntelliSeek™ technology, WD Purple drives calculate the optimum seek speeds which lowers power consumption, noise and vibration that can damage and cause drives to wear out more quickly. When you invest in a premium surveillance-class drive you worry less while enjoying the benefits over a longer period of time.

Power requirements:

- Read/write: 4.4W
- Idle: 4.1W
- Standby and sleep: 0.4W

SPECIFICATIONS	XC5682
Form Factor	3.5"
Buffer To Host Transfer Speed	6Gbps
Host To/From Drive (Sustain)	145Gbps
Operating Temperature	0-65°C
Idle Acoustics	23dBa
Seek Acoustics (Average)	24dBa
Dimensions	147(L) x 101.6(W) x 26.1(H)mm, 640g

p.313 2.5" 1TB Notebook HDD

Cat.	Qty 1+
XC5682	$179.00

For next day delivery, or Click and Collect, see page 5

Special Application Cameras

1080P MINI AHD CAMERA

This mini 1080p camera is ideal for situations where limited space is a problem. Perfect for covert home security, retail stores or even in car or truck surveillance. This unit features the latest HD analogue solutions AHD, TVI, CVI and CVBS (analogue). Includes a BNC plug to RCA plug adaptor and mounting hardware.

1 YEAR WARRANTY

SPECIFICATIONS	QC8651
Camera Type	AHD/ TVI / CVI / CVBS (Analogue)
Resolution	1080p (1920 x 1080)
Megapixels	2.0
Frame Rate	25fps
Lens	3.6mm
Lens Angle	75°
Infrared	10 x IR LEDs
Infrared Range	Up to 10m
Power	12VDC, 500mA
Dimensions	42(H) x 42(W) x 35(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p Mini AHD Camera	QC8651	$69.90	$62.90	$58.90

p.511 - new mini action cameras

CLIP-ON 1080P BODY CAMERA

NEW

Clip this compact HD camera onto your clothing or attach to a metal object using the strong built-in magnet. Record video with audio up to 1080p directly to an internal microSD memory card, which can be played back on a computer to prove what happened. A motion detection feature ensures only relevant footage is recorded and avoids filling your memory card unnecessarily. A video loop function ensures it is always able to record without the need to format the memory card. Able to record up to 3 hours of footage on one charge. Simply connect to an available USB power source to charge the internal Li-Po battery.

- Resolution up to 1080p
- Motion detection
- Loop video recording

1 YEAR WARRANTY

SPECIFICATIONS	QC8200
Video Resolution	1920 x 1080 / 1280 x 720
Video Format	AVI
Video Coding	M-JPEG
Video Ratio	16:9
Framerate	30fps
Lens	2MP
Power Supply	Built-in Rechargeable 560mAh Polymer Battery
Voice Recording Time	7 hours
Video Recording Time	3 hours
Storage	microSD card up to 64GB (sold separately)
Interface	Micro USB
Charging Voltage	DC 5V
Interface	Micro 5 Pin USB
Dimensions	85(L) x 35(W) x 28(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QC8200	$94.90	$84.90	$79.90

p.312 - suitable memory cards

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COVERT 1080P PEN CAMERA

NEW

1 YEAR WARRANTY

Looks just like a regular pen but it has a tiny camera and microphone just above the pen clip to discreetly capture high definition video, audio or still photos. The files save to a microSD card (not included), which you can later transfer onto your computer. Ideal for taking electronic notes at your next meeting or protecting your legal rights by capturing a video or audio record of an event. Photos and recordings are triggered using the push button located on the top of the pen, and the internal Li-Po battery provides up to 70 minutes of recording. Connect to a USB port to charge.

- 1080p
- Voice, photo or video recording
- Rechargeable

SPECIFICATIONS	QC8202
Video Format:	AVI
Video Resolution:	1920 x 1080p
Video Rate:	30fps
Photo:	JPG
Photo Resolution:	2560 x 1440
Working Time:	70 minutes
USB Port:	Micro USB
Memory:	microSD card up to 64GB (sold separately)
Battery:	210mAh Rechargeable Li-Po
Weight:	40g

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QC8202	$84.90	$75.90	$71.90

Standalone Cameras With Recording

OUTDOOR 5MP SECURITY CAMERA WITH PIR

A motion activated weatherproof camera suitable for outdoor domestic security applications. It will record video in 720p quality when motion is detected for you to playback later on a computer or TV.

- Features a bright 38 LED infrared light to illuminate objects at night, LCD status display, and schedule function
- SD card is required (available separately) as well as 4 x C batteries, which can last for months
- Option for a 6VDC power supply (use MP3145)
- Easy to install and operate

SPECIFICATIONS	QC8027
Picture Resolution	8MP max
Video Resolution	1280 x 720 (20fps) with Audio
Effective Range	9m
PIR Sensor	48°
Lens	50° Field of View
IP Rating	IP66
IR Range	Up to 9m
IR Illumination	38 IR Emitters
Time Lapse	5 - 600 seconds programmable
Delay Time	1 - 600 seconds programmable
Stamping	Date/Time stamped on still image/video
External Memory	SD card up to 32GB (sold separately)
Power Supply	4 x C cells or 6VDC (not included)
Dimensions	140(H) x 75(Dia.)mm, 280g

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
5MP Outdoor Camera	QC8027	$229.00	$205.95	$194.45

Standalone Cameras With Recording CONTINUED

OUTDOOR TRAIL CAMERAS

Trail cameras are great for monitoring local wildlife and of course, can also be used as an outdoor security monitor. They can work for up to 6-months while the weatherproof IP66 case keeps the electronics safe in any weather. An ultra bright infrared flash provides night operation without startling animals. A wide-angle PIR detects motion, to trigger the shutter in just 0.4 seconds. It can start video, or a photo burst up to 9-frames. A large 2.4" LCD provides easy review of footage and adjustment of settings.

- 2.4" TFT-LCD colour display
- High resolution stills and video
- IP66 weatherproof
- Up to 6 months standby time

1 YEAR WARRANTY

SPECIFICATIONS	QC8041	QC8043
Video Resolution	720p (1280 x 720)	1080p (1920 x 1080)
Image Resolution	8M	12MP
Effect Range	Up to 15m	Up to 20m
Lens Angle	73°	55°
Quick Trigger Time	1 Second	0.4 Seconds
PIR Sensor Angle	60°	120°
Infrared LEDs	26	42
Battery Life	Up to 6 months standby	
Batteries	8 x AA	
Storage	SD card up to 32GB (sold separately)	
IP Rating	IP66	
Dimensions	135(H) x 100(W) x 80(D)mm	

	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	QC8041	$169.00	$151.90	$142.90
1080p	QC8043	$229.00	$199.00	$189.00

7" LCD WIRED VIDEO DOORPHONE

1 YEAR WARRANTY

Find out who's knocking before you open the door! The fantastic resolution from the camera and monitor puts the power at your fingertips, providing you with clear vision to identify visitors. Even at night the night vision LEDs will help provide a clear picture regardless of ambient light. The camera is mounted into a strong, weatherproof, rust-free, vandalism-resistant alloy metal housing, for protection against damage. The monitor is a sleek wall-mounted light-touch interface with a full colour 7-inch screen. The system provides electric-lock control, monitoring functionality, as well as full talk-back to the outdoor unit. There is also a selection of 16 melodies to choose from when a visitor comes calling. Includes 15m of cable between the indoor and outdoor unit, but can be extended up to around 50m. All power supply and mounting hardware is included. Additional monitors can be added to provide control from multiple parts of the house.

- Full colour 7" widescreen with soft-touch buttons
- Effective night vision LED support
- Electric lock control
- DIY installation

SPECIFICATIONS	QC3880
Indoor Unit (Screen):	
Screen Size	7"
Resolution	800 x 480 full colour
Power Input	12VDC @ 1.1A
Working Distance	Up to 50m (15m cable included)
Weight	420g (excluding bracket)
Dimensions	Camera: 127(H) x 47(W) x 35(D)mm Monitor: 215(W) x 152(H) x 20(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
7" LCD Wired Video Doorphone	QC3880	$229.00	$199.00	$179.00
Additional Doorphone	QC3882	$179.00	$160.90	$142.90

Wired & Wireless

SWANN 720P WI-FI VIDEO DOORBELL

1 YEAR WARRANTY

Wi-Fi

A smart rechargeable video doorbell that can simply be connected to your existing Wi-Fi network. Allows you to see and talk to visitors via the built-in camera, speakers & microphone on your Smartphone. It also lets you playback video on your Smartphone & keep video clips to share with law enforcement or social media. Main doorbell unit is recharged via USB.

Box Contents:

1 x Video doorbell
1 x Chime
1 x USB to micro USB charging cable
1 x Security sticker
1 x Mounting hardware

GET IT ON Google play

Available on the App Store

Swann

SPECIFICATIONS	QV9090
Camera Resolution	720p
App	SwannBuzz (iOS® & Android)
Power (Chime)	2 x AA batteries (sold separately)
Dimensions	Outdoor Unit: 70(W) x 144(H) x 39(D)mm Indoor Unit: 65(W) x 105(H) x 28(D)mm

	Cat.	Qty 1+
	QV9090	$225.00

2.4GHZ DIGITAL WIRELESS 7" LCD VIDEO DOORPHONE

1 YEAR WARRANTY

2.4GHz

This unit features an impressive wireless range of up 50m. The modern indoor monitor features touch sensitive buttons and easy operation. The camera unit provides clear full-colour vision through the day and night-vision when it's dark. Two-way talkback with the outdoor unit is made simple, and door-lock control is included. Another great feature is the photo-storing system, providing you the ability to store up to 100 snapshots of visitors. Let's not forget that this unit integrates full battery backup control, with internal Lithium batteries. This retains full functionality of your doorphone system in the event of a power outage! All mounting hardware and power supplies are included.

- Two-way intercom
- Wireless range up to 50m
- Battery backup functionality

SPECIFICATIONS	QC3884
Camera Resolution	380TVL
Transmission Distance	300m
Monitoring Time	90 sec approx.
Dimensions	Outdoor Unit: 75(W) x 154(H) x 33(D)mm Indoor Unit: 230(W) x 130(H) x 32(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC3884	$459.00	$409.00	$359.00

For next day delivery, or Click and Collect, see page 5

Intercoms & Doorbells

2 STATION WIRED INTERCOM

Either station can signal the other even when the system is off. It can be used as a room/baby monitoring system.

- Adjustable volume
- Call facility even when unit is off
- Hands-free communication on sub-station
- Requires a 9V battery or 240V plugpack use MP3146
- Supplied with 20m of connecting cable and staples

1 YEAR WARRANTY

Domestic use only. Warranty does not apply if product is used industrially.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Wired - Pair	AM4310	$36.90	$33.20	$29.50

2 STATION WIRELESS FM INTERCOM

1 YEAR WARRANTY

Plugs into a 240V power point and will send to another room, upstairs etc. Both units need to be on the same channel and on the same mains phase to communicate. The intercom has a built-in monitor function so you can put one in a baby's room and listen from another location around the house. Additional units can be added to the system to provide a multi-point intercom system.

- Transmission through house wiring
- 2 Channels

	Cat.	Qty 1+	Qty 4+	Qty 10+
Wireless - Pair	AI5500	$89.90	$80.90	$71.90

BATTERY OPERATED WIRELESS DOORBELL

A simple battery operated doorbell that includes 16 selectable melodies and includes a 4 level volume adjustment. With a 50m wireless transmission range, it will cover any distance of your house or apartment. Simple plug and play with easy installation. Mounting hardware included.

- Up to 50m Range
- 16 Melodies
- 4 Level Volume Adjustment

SPECIFICATIONS	LA5048
Wireless Frequency	433MHz
Batteries	1 x CR2032 Included (Transmitter) 3 x AAA (Receiver)
IP Rating	IP54 (Transmitter)
Dimensions	210(H) x 96(W) x 35(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5048	$22.90	$20.90	$17.90

HIGH SOUND LEVEL WIRELESS DOORBELL WITH STROBE FOR THE HEARING IMPAIRED

When this doorbell rings, the sound is accompanied by several bright flashes from the receiver's built in strobe light, which makes it much easier for a hearing impaired person to know that someone is at the door.

The sounder can be taken from room to room, or even used outdoors and will work up to 30 metres from the transmitter button. The melody can be set to one of seven different sounds and has two volume levels - medium and loud. The unit is supplied with a neck lanyard and mounting hardware for the transmitter button.

- Requires 4 x C cells, available separately
- 210mm long

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell with Light Strobe	LA5002	$67.90	$61.00	$54.30

WIRELESS DOORBELL - 240VAC PLUG

1 YEAR WARRANTY

Simple plug and play in design. This compact sized doorbell receiver plugs into a power point and is not much bigger than a slim line power supply, so it fits on your powerboard or double wall socket without taking up too much space. Once plugged in, the battery powered wireless doorbell button can transmit up to 100 metres chiming out one of the 36 selectable melodies.

- 433MHz
- Suitable for rental properties, apartments and small offices
- Plugs directly into a power point

	Cat.	Qty 1+	Qty 4+	Qty 8+
240VAC Plug-in Doorbell	LA5029	$31.90	$28.70	$25.50

Door & Driveway Beams

INDOOR COMMERCIAL GRADE DOORWAY BEAM

A compact entry warning system is designed for use in shops, restaurants, doctors and dentist surgeries etc. to alert you to the entry of customers and visitors. The system consists of a send/receive unit which transmits an IR beam across the doorway onto a prismatic reflector mounted on the opposite side. The beam is reflected back to the receiver to complete the circuit. When a person walks through the beam, the circuit is interrupted and this causes the alarm to sound an audible warning. The warning buzzer can be mounted in any suitable location up to 10m away.

- Mains plugpack and mounting hardware included.
- Range 2 - 6 metres
- Power: 9VDC
- Adjustable alarm time and volume
- Transmitter/Receiver size 70(H) x 60(W) x 30(D)mm
- Reflector size: 65 x 53mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorway Beam	LA5193	$99.90	$89.90	$79.90

COUNTER TO SUIT DOORWAY BEAM LA5193

Attach to our LA5193 Door Beam units to easily measure the door entry count in your shop, factory or office. The 20m lead carries both the signal and power, allowing you to mount the counter in a convenient location away from the door entry. This product is a must have for the serious retailer to easily measure the store traffic to sales conversions in their store.

- Counts up to 9999
- Includes '+','-' and 'Reset' buttons
- Dimensions: 60(W) x 70(H) x 23(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
Counter	LA5197	$59.90	$53.90	$47.90

DOOR EXTENSION BUZZER TO SUIT LA5193

1 YEAR WARRANTY

This neat and compact buzzer can be mounted anywhere and is recommended as an addition to our Door Security Beam with Reflector (LA5193) as an extension alarm. The volume of the buzzer is adjustable and the sound output can be selected by a slide switch to Alarm, Off or Chime. The sounding time can also be adjusted from 3 to 30 seconds.

- Supplied with mounting hardware, a 10m lead and an adjustment screwdriver

SPECIFICATIONS	LA5188
Input Voltage	9 - 15VDC
Consumption Current	25mA Max
Ambient Temp	-20°C - 50°C (-4°F - 122°F)
Response Time Of Buzzer	Chime: 1sec. Alarm: 30sec
Volume Of Speaker	0 - Max (adjustable)
Alarm Time	30 sec Max (adjustable)
Speaker Output	Chime/Off/Alarm (selected by switch)

	Cat.	Qty 1+	Qty 4+	Qty 8+
Door Buzzer	LA5188	$41.90	$37.90	$33.40

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Door & Driveway Beams CONTINUED

WEATHERPROOF COMMERCIAL GRADE INFRARED BEAM

A heavy duty version of the common beam sensor used in doorway announcers, this commercial grade infrared beam is ideal for detecting when a person or object crosses a boundary or entrance way. Simply install the sensor module aligned with the reflector and the relay output will be triggered by any object which breaks the beam. The sensor module projects a modulated beam which resists interference from sunlight and can be used over a range up to 15m. Suitable for connection to existing lighting or security systems, and also compatible with the extension buzzer and counter addon units for our standard doorway beam. The polycarbonate casing is weatherproof with an anti-fog sensor window making it suitable for use outdoors and in dusty or damp environments. LED indicators are included to assist with installation and provide a visual indication of the beam status.

- Adjustable vertical beam angle
- Narrow beam angle
- NC tamper switch output
- 12VDC plugpack required
- Terminal block and cable gland included

SPECIFICATIONS	LA5179
Input Voltage	12 to 250V AC or DC
Sensing Range	0.25 to 15m
Enclosure Rating	IP66
Relay Output	NO / NC contact
Output Contact Rating	30VDC 1A
Sensor Module Dimensions	122(H) x 62(D) x 61(W)mm
Reflector Dimensions	82(Dia) x 8(H)mm

OPTIONAL ACCESSORIES:

Please note these require hard-wiring to achieve compatibility, see website PDF.

- LA5188 Door Beam Extension Buzzer*
- LA5197 Door Beam Counter Module *

LA5188

LA5197

1 YEAR WARRANTY

Note: Accessories need to be hard wired.

	Cat.	Qty 1+	Qty 4+	Qty 8+
Infrared Beam	LA5179	$149.00	$133.90	$118.90
Extention Buzzer	LA5188	$41.90	$37.90	$33.40
Counter Module	LA5197	$59.90	$53.90	$47.90

WIRELESS DRIVEWAY & ENTRY PIR ALERT KIT

Provides a useful alert to movement in a driveway or entryway. The PIR motion detection has an effective range of 4-8m, and can transmit to the indoor unit up to 80m away. Battery powered so there's no messy wiring, while intelligent design provides up to 2yrs of battery life. The indoor unit features a courteous chime, with high / low / off volume selection, as well as LED alert. Includes adjustable mounting bracket for the PIR unit for optimal positioning, and suitable mounting hardware. 6 x AA batteries required.

- Adjustable alarm volume
- DIY installation - battery powered
- 4-8m PIR distance
- Over 80m wireless transmission range

1 YEAR WARRANTY

SPECIFICATIONS	LA5178
Wireless Frequency	433.85MHz
Dimensions	Transmitter: 62(W) x 122(H) x 40(D)mm Receiver: 70(W) x 130(H) x 26(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA5178	$39.90	$35.90	$31.90

Smart Padlocks

BLUETOOTH CONTROLLED PADLOCK WITH FINGERPRINT SCANNER

NEW

Unlock this padlock by simply swiping your finger or by using an app on your Smartphone. Perfect for applications where it is inconvenient to carry keys, such as the gym, or when you have many people who need to gain access. The lock is able to recognise up to 15 different fingerprints, and a record of the last 1000 scans can be reviewed on the app to see who has gained access. The internal Li-Po battery has a standby time of 4 months before needing to be charged by USB. The 303 stainless steel shackle and IP65 rated aluminium body makes it suitable for outdoor use.

- Biometric Finger Scanner
- Bluetooth Unlock with App
- Store up to 15 Fingerprints
- IP65 Waterproof

1 YEAR WARRANTY

Bluetooth®

SPECIFICATIONS	LA5140
Battery	Li-polymer 3.7V, 120mAh
Charging	5V, 130mA (Micro USB)
Finger matching time	<0.5 sec
Dynamic & Static Power Dynamic	60mA, Standby 10ua
Service Time	Up to 4 Months Standby
Unlock Times	over 2800 continuous unlock times
Unlock Record	1000
Waterproof Grade	IP65
Shackle	6mm Dia.
Dimensions	86(L) x 50(W) x 22(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5140	$94.90	$84.90	$75.90

LUGGAGE PADLOCK WITH FINGERPRINT SCANNER

NEW

Unlock this modern padlock using just your fingerprint, which saves you the trouble of carrying keys and can save you costly key cutting costs for multiple users. The built-in rechargeable battery will hold charge for up to a year, and can be conveniently charged from USB. The stylish zinc alloy build is waterproof and up to ten fingerprints can be stored.

- Stores up to 10 fingerprints
- 1 year battery life
- IP66 waterproof
- USB charge cable included

1 YEAR WARRANTY

SPECIFICATIONS	LA5129
Service Time:	Up to 1 Year Standby
Quantity of fingerprints:	10
Waterproof Grade:	IP66
Shackle:	4mm Dia.
Body dimensions:	91(H) x 34(W) x 17(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5129	$94.90	$84.90	$75.90

Sanjaya Diyadawa likes to

think. possible.

"Yeh..IOT will be the future of Technology as it has already spread across the world beyond all kind of countries, ethnicities, and nationalities. everything you want is at your fingertips to control everything day today. You will find IoT in the smartwatch, Medical equipment, transportation and home Automation."

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

For next day delivery, or Click and Collect, see page 5

Smart Lock

SMART LOCK DEADBOLT KIT WITH BLUETOOTH TECHNOLOGY

NEW

1 YEAR WARRANTY

This smart door lock is perfect for offices, rental apartments or homes where many people need to gain access. Designed to replace a traditional door lock and enable users to gain access by using a unique passcode. The administrator uses an app on their iOS or Android Smartphone to generate permanent, timed (6hr) and one-time (24hr) passcodes, freeze or delete codes, and to view a record of who has gained access. Power is provided from 4 x AA batteries which allows the unit to operate up to 5000 times before batteries require replacement. A low battery alert sounds when the battery is getting low, and the remaining power can be checked by the administrator via the app. Other features include a tamper alarm, auto-lock, unlock alert, and a 5 minute lockout if a passcode is incorrectly entered too many times. Two mechanical keys are also provided for the owner to gain access without the need to enter a password. The lock suits door thicknesses between 32 and 48mm, and caters for both left and right hand doors. Mounting hardware supplied.

- Unlock with App, Keypad, or Key
- Fits Doors 32 ~ 48mm Thick

Bluetooth

SPECIFICATIONS	LA5095
Power	6V (4 x AA Batteries)
Static Power Consumption	<30uA
Dynamic Power Consumption	<300mA
Battery Life	Up to 5000 Locking/Unlocking
Dimensions	Lock: 155(H) x 66(W) x 30(D)mm Keypad: 137(H) x 60(W) x 12(D)mm (29(D)mm including interior components)

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5095	$259.00	$229.00	$199.00

RFID Tags

- EM4001 125kHz

ZZ8950

ZZ8952

ZZ8953

KEY FOB

Dimensions: 31(W) x 40(L) x 5(H)mm
Cat. ZZ8950

WAFER CARD

It is around the same size as a standard credit card.
Cat. ZZ8952

LANYARD TYPE

Hangs on a lanyard or belt clip. Similar size to a credit card.
Cat. ZZ8953

	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyfob	ZZ8950	$7.30	$6.50	$5.80
Wafer Card	ZZ8952	$6.90	$6.20	$5.50
Lanyard Card	ZZ8953	$6.90	$6.20	$5.50

Graeme Hodgson likes to

think. possible.

"Robots are my favourite peice of technology, in the next 5 years we will be talking to them like normal people, and who knows what will happen to them in 10 years!"

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Radio Frequency ID Devices (RFID)

WATERPROOF DIGITAL KEYPAD WITH RFID ACCESS CONTROL

A single door multifunction standalone access controller or a Wiegand output keypad/card reader suitable for an area requiring stricter access control such as a laboratory, warehouse, bank, or prison. The unit is suitable for mounting indoor or outdoor in harsh environments. It's housed in a sturdy IP65 vandal proof zinc alloy electroplated case that can mounted to a wall with minimal drilling. Up to 2,000 users are supported in either a card, a 4-8 digit PIN, or a card + PIN option and the inbuilt card reader supports EM, 125kHz frequency cards. Full installation instructions/wiring diagrams featured.

- Adjustable door output time, alarm time and door open time
- Built in buzzer

1 YEAR WARRANTY

SPECIFICATIONS	LA5353
Voltage	12VDC
Card Type	EM 125kHz
Card Reading	Distance: 3-6cm
Adjustable Door Relay Time	99 seconds
Adjustable Alarm Time	0-3 minutes
Weigand Interface	Wiegand 26 bit
Wiring Connection	Electric Lock, Exit Button, DORL, External Alarm
Dimensions	128(H) x 82(W) x 28(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
RFID Keypad	LA5353	$159.00	$143.90	$127.90

RFID ACCESS CARD READER

With storage for up to 10,000 users and IP65 weatherproof housing, this is a robust standalone control system. An infrared remote control is included to provide straight forward access to configuration and card add/removal (also secured by PIN for management functions). 12V 3A relay control is provided for an electric lock mechanism, with inputs for an exit button, as well as door sensing. With minimal additional wiring you can easily add fail safe / fail secure functionality. Security features can be optionally enabled such as lockout and alarm on 10 failed swipes in 10-minutes, for additional security awareness.

- Waterproof IP65
- Supports proximity HID and EM (125kHz)
- Large capacity for up to 10,000 users.
- Supports adding 9999 cards with serial numbers

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5351	$99.90	$89.90	$79.90

WI-FI RFID ACCESS KEYPAD

Open the door remotely by your Android or iOS® smartphone through this Wi-Fi access card reader. It can be connected to a door strike, exit button and external alarm to open doors and sound the alarm. Can be used as a standalone access card reader or controlled by an external access controller.

1 YEAR WARRANTY

SPECIFICATIONS	LA5358
Voltage	12-24VDC
Card Type	EM 125kHz / HID
Wiegand Interface	26 bit
Dimensions	125(H) x 83(W) x 22(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5358	$289.00	$259.00	$229.00

4 DOOR RFID ACESS CONTROLLER

1 YEAR WARRANTY

This 4 way access controller can control up to 4 doors, 4 readers and 4 exit buttons. With in/out management and time & attendance, every user or employee can be tracked on the time they have used the access card. Perfect for large or small businesses with up to 20,000 users and permanent entry logging.

SPECIFICATIONS	LA5359
User Capacity	20,000
Event Log	100,000 saved permanently
Wiegand Interface	26 bit
Dimensions	201(L) x 126(W) x 32(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5359	$339.00	$299.00	$269.00

Remote Controls

SINGLE CHANNEL KEYFOB REMOTE

p.126 wireless remote controls

Multi-purpose remote control keyfob for garage doors, lights automatic gates etc. It operates in the 27MHz band on an FM signal. The built-in microcontroller uses the latest technology allowing for easy setup and installation while providing maximum security and reliability.

- Requires A554 battery
- Battery status LED
- Up to 200m range

	Cat.	Qty 1+
Key Fob Remote	LR8847	$56.90

ONE CHANNEL HAND CONTROLLER/TRANSMITTER

The most common remote garage door transmitter in use in Australia/New Zealand today. The single button controller operates on 27MHz and requires a 9V battery. The transmission is custom coded via a 10-way DIP-switch which is accessible from the battery cover and is matched to the receiver. Suitable for use with garage doors, security gates, and other equipment. This will save ordering one through the garage door people who charge a fortune for replacements.

- Weight: 72g excluding battery
- Dimensions: 96(H) x 55(W) x 20(D)mm

Suits garage doors, motorised gates etc.

1 YEAR WARRANTY

	Cat.	Qty 1+
Handheld Remote	LR8827	$74.90

Door Strikes

FAIL SECURE NARROW ELECTRIC DOOR STRIKE

Upgrade your conventional door locks to keyless entry electronic access. This electric door strike is suitable for narrower doors. A fail secure door strike will keep a door locked shut in the event of a power failure. Conversely, fail safe door strikes keep doors unlocked in the event of a power failure. This electric door strike complements our range of RFID controls for card or fingerprint access, or can also be paired with one of our intercoms or video doorphones to create a convenient remote door access system.

- Suitable for wood, aluminium and hollow metal door jambs
- Plate size: 160(L) x 25(W) x 28(H)mm
- Power: 12VDC, 450mA

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
Fail Secure Type	LA5077	$54.90	$49.40	$43.90

STANDARD FAIL-SECURE DOOR STRIKE

Designed for use with cylindrical lock-sets (commonly used on wooden and aluminium doors).

- Dimensions: 150(L) x 39.5 (W) x 28(H)mm
- Zinc alloy face plate
- 12VDC 450mA (on striking)

1 YEAR WARRANTY

See website for technical drawing

	Cat.	Qty 1+	Qty 4+	Qty 8+
Fail Secure Type	LA5078	$59.90	$53.90	$47.90

Ed Burke likes to

think. possible.

"My weather station helps me manage our small nursery and to plan for the future. It more people used this technology there is great potential to better manage the environment."

Security Lighting

SOLAR RECHARGEABLE SENSOR SPOTLIGHT

1 YEAR WARRANTY

An all-in-one light, which turns on automatically at night when the built-in PIR detects movement. Set the light to illuminate for a short duration or continuously until manually turned off. During the day sunlight charges the solar panel on top of the light, so it's ready for use after the sun goes down. Easy to install, and feature an adjustable head to shine the light where you need it most.

SPECIFICATIONS	SL3238
Lumens	250
Sensor	PIR
Motion Detective Distance	5m
Battery Type	1200mAh 4.5V Ni-MH battery included
Dimensions	210(L) x 210(W) x 140(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Solar Rechargable Spotlight	SL3238	$54.90	$49.40	$43.90

RECHARGEABLE SOLAR SENSOR LIGHT

This rechargeable solar sensor acts as a deterrent against thieves with its security camera appearance. A fully self-contained unit with rechargeable battery and solar panel so it will always keep it charged. Automatically turns on at night whenever movement is detected with the PIR sensor.

SPECIFICATIONS	SL3239
Sensor Angle	0-70°
Solar Panel Input	1.6W
Solar Panel Output	5V, 300mA
Battery	3.7V, 2000mA

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
300 Lumens	SL3239	$79.90	$71.90	$63.90

NON-CONTACT INFRARED DOOR EXIT SWITCH

This infrared sensor can replace the old push button switch on automatic exit doors so that they will open with just a wave of your hand. The sensor will trigger an internal relay when your open hand comes within 100mm of the panel. No actual contact is required so there can be no transfer of contagions from one person to the next. The sensor is mounted on a stainless steel plate and has indicator LEDs built in to signal that the switch has been activated.

- 12VDC supply voltage
- 3A @ 30VDC contact rating relay
- 30mm sensor diameter
- 70 x 115mm plate dimensions

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Door Exit Switch	LA5187	$89.90	$80.90	$71.90

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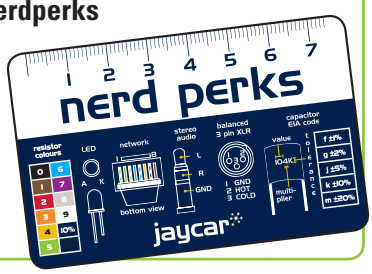


Wireless Alarm Kits

MINI WIRELESS ALARM KIT

Installation is made easy using wireless connectivity, so there's no messy cables to run. All sensors are wirelessly connected, and the unit features a super-loud 120dB siren which is also the base station, which includes a small strobe. Activation is with a keyfob remote control. You can easily cover a greater area by adding more sensors to windows and doors or install PIR motion detectors too. Kit includes siren, one motion detector, one door/window sensor, and a keyfob remote. There's also a security sticker for an added deterrent!

- Wireless connection of all components
- Quick and easy installation
- Ideal for home or office
- Easily expanded to cover a greater area

1 YEAR WARRANTY

433MHz

SPECIFICATIONS	LA5282
Siren Rated	120dB
Batteries	Main Siren: 3 x AA (Not included) Motion Sensor: 1 x CR123A (Included) Door/Window Sensor: 2 x AAA (Included) Key Fob Remote Control: 1 x 12V (Included)
Dimensions	Main Siren: 105(H) x 67(W) x 33(D)mm Motion Sensor: 66(H) x 64(D) x 53(W)mm (Including mounting bracket) Door/Window Sensor: 89(H) x 42(W) x 16(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Mini Wireless Alarm Kit	LA5282	$99.90	$89.90	$79.90

Accessories to Suit	Cat.	Qty 1+	Qty 2+	Qty 4+
Additional Window/Door Sensor	LA5285	$37.90	$33.90	$29.90
Additional Motion Sensor/PIR	LA5287	$45.90	$40.90	$35.90

p.268 - video surveillance deterent stickers

720P WI-FI IP CAMERA TO SUIT LA5282/84

This brilliant camera extends the functionality of your compatible alarm system by providing motion detection triggering, and pan / tilt functionality. It provides high quality 720p video, and includes infrared night vision. The camera can also work as a standalone unit, recording to an SD card. You can view / review footage via an iOS / Android app, with email and push notifications available too. Compatible with LA5282/84 alarm systems. Includes power supply and mounting hardware.

- Smartphone App Controlled
- Pan & Tilt
- Night vision

	Cat.	Qty 1+	Qty 2+	Qty 4+
720p Wi-Fi IP Camera	LA5289	$169.00	$151.90	$134.90

8 ZONE WIRELESS ALARM KIT

Installation is made easy using wireless connectivity, so there's no messy cables to run. All sensors are wirelessly connected, and the unit features a super-loud 120dB siren inside the base station. Activation is via the keypad on the base station or the supplied keyfob remote control. You can easily cover a greater area by adding more sensors to windows and doors or install extra PIR motion detectors. Kit includes base station, one motion detector, one door/window sensor, and a keyfob remote.

- Ideal for home or office
- Pre-programmed for easy installation
- 120dB siren
- Can be expanded
- 8 pre-set zones
- Remote control has Panic feature

1 YEAR WARRANTY

433MHz

SPECIFICATIONS	LA5284
Batteries	LCD Smart Panel: 1 x 9V (Not Included) Motion Sensor: 1 x CR123A (Not Included) Door/Window Sensor: 2 x AAA (Not Included) Key Fob Remote Control: 1 x 12V (Included) Power: 9.5V @ 500mA (LCD Smart Panel)
Weight	LCD Smart Panel: 227g (Excluding Battery) Motion Sensor: 47g (Excluding Battery) Door/Window Sensor: 40g (Excluding Batteries) Key Fob Remote Control: 20g (Including Battery)
Dimensions	LCD Smart Panel: 154(W) x 113(H) x 33(D)mm Motion Sensor: 67(H) x 58(D) x 51(W)mm Door/Window Sensor: 88(H) x 53(W) x 11(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wireless Alarm Kit	LA5284	$149.00	$133.90	$118.90
Spare Wireless Keyfob Remote	LA5149	$36.90	$33.20	$29.50
Wireless Siren & Strobe	LA5159	$139.00	$124.90	$110.90
Wireless Indoor 120dB Siren	LA5142	$47.90	$42.90	$38.40

LARGE ALARM STICKER

For trucks, caravans, houses, offices and factories. Where a larger and more prominent deterrent sticker is required. Sticks to outside of window.

	Cat.	Qty 1+	Qty 3+	Qty 6+
120 x 80mm	LA5102	$3.90	$3.10	$2.70

pick me Alarm Systems

	Connection	Frequency	Zones	App Controlled	Self-Install	Page
LA5610	Wi-Fi	2.4GHz	100	•		279
LA5282	Wireless	433MHz	8			278
LA5284	Wireless	433MHz	8			278

Wireless Alarm Systems

100 ZONE WI-FI ALARM KIT WITH APP

RED SHIELD™

1 YEAR WARRANTY

Wi-Fi

This 100 Zone Wi-Fi and cloud control Alarm system is very easy to install, and can be controlled easily via the touch screen, using a wireless key-fob or by your Smartphone. The PIR and Reed switches are mounted using 3M™ double sided tape. An ideal security system if you are renting or where it is difficult to run wiring through the premises. A Wi-Fi network is required.

- App controlled (suits Android and iOS®)
- Cloud enabled home-security system with full control from Smartphone
- Smart touch panel and easy to use
- Push notifications, Email alerts
- Dimensions: 163(W) x 132(L) x 30(D)mm

Kit Includes:

1 x Smart touch panel with rechargeable battery
1 x Wall/desk mount bracket with mounting hardware
1 x PIR motion sensor with magnetised mounting bracket & batteries
2 x Slim door/window sensors with batteries
1 x Wireless key fob remote with battery
1 x Mains adaptor

View live footage on a Smartphone.
Smartphone not included.

ACCESSORIES TO SUIT 8 ZONE WI-FI ALARM KIT LA5610

720P WI-FI IP CAMERA

This is a 720p high definition wireless IP Camera that suits LA5610 8 Zone Wi-Fi Alarm Kit with App. The camera features pan and tilt rotation with IR night vision LEDs. It also supports mobile phone remote viewing and motion detection so that when the alarm is triggered it will send an alert to your phone and simultaneously brings up the camera footage live so that you can see what's happening!

- Dimensions: 125(H) x 100(W) x 95(L)mm

Cat. LA5620

LA5620

SPARE WIRELESS KEY FOB REMOTE

Compact remote control for the Wi-Fi Alarm. This 5 buttons remote features 3 modes and a socket function to turn the home appliance ON and OFF. It has an excellent transmission range. CR2032 Lithium battery is included.

- Power: 1 x CR2032 Lithium battery included
- Dimensions: 55(L) x 37(W) x 9(D)mm

Cat. LA5618

LA5618

FLOOD SENSOR TO SUIT LA5610 WI-FI ALARM

Triggered when water reaches the sensor, ideal for monitoring potential flood areas such as a laundry, basement, bathroom etc. Can also be used to alert when you're topping up your pool etc. Single AAA battery, adhesive mounting strips included.

Cat. LA5615

SPECIFICATIONS	LA5615
Battery	1 x AAA (Included)
Weight	22g
Cable Length	240mm
Dimensions	Main Unit: 21(W) x 72(H) x 20(D)mm, Sensor: 25(W) x 15(H) x 10(D)mm

SPARE WIRELESS PIR SENSOR

Will alert wireless home alarm when movement is detected. It is ideal for wide spaces such as rooms, hallways, stairwells, sheds, front and back doors. Features power-saving with 3 minutes motion lockout after each detection to preserve battery life. It has 120 degree wide angle detection and features low battery warning. It comes with a PIR motion sensor, all-directional magnetic mounting bracket, which can be mounted using the supplied 3M® doublesided tape or included mounting screws.

- Power: Includes 1 x CR123A Lithium battery
- Dimensions: 65(L) x 49(W) x 36(D)mm

Cat. LA5614

LA5614

WIRELESS EXTERNAL SIREN STROBE

Add an external siren to alert your neighbours and scare would-be thieves.

- Siren: 120dB
- Battery: Requires 4 x D size
- Dimensions: 260(L) x 250(W) x 50(D)mm

Cat. LA5619

SHOCK SENSOR TO SUIT LA5610 WI-FI ALARM

Triggered by glass breaking, a door being smashed, or any other shock force. Includes mounting adhesive and battery.

Cat. LA5617

SPECIFICATIONS	LA5617
Battery	1 x AAA (Included)
Weight	26g
Cable Length	280mm
Dimensions	Main Unit: 21(W) x 76(H) x 20(D)mm, Sensor: 35(W) x 35(H) x 6(D)mm

**Note: Not stocked in all stores but can be ordered.*

SPARE WIRELESS REED SWITCH

Will alert the wireless home alarm when a door or window is opened. Ideal to use on windows and doors of your garages, cabinets, sheds, attics, side doors and freezers. It has magnetic sensor that can be mounted on right or left side of door or window. Features low battery warning. It comes with a window sensor and a double-sided tape.

- Power: 2 x AAA batteries included
- Dimensions: 75(L) x 20(W) x 20(D)mm

Cat. LA5616

GARAGE DOOR SENSOR TO SUIT LA5610 WI-FI ALARM

Provides reed switch functionality with enough flexibility for easy mounting onto a garage door. Uses a single AAA battery, includes adhesive mounting strips.

Cat. LA5613

SPECIFICATIONS	LA5613
Battery	1 x AAA (Included)
Weight	32g
Cable Length	290mm
Dimensions	Main Unit: 21(W) x 76(H) x 20(D)mm, Sensor: 11(W) x 50(H) x 12(D)mm

TEMPERATURE SENSOR FOR LA5610 WI-FI ALARM

Extremely versatile. Monitors temperature, with a huge array of applications. Great for the wine cellar, dog's kennel, baby's room, and more. Includes adhesive mounting strips & battery.

Cat. LA5621

SPECIFICATIONS	LA5621
Battery	2 x AAA (Included)
Weight	50g
Cable Length	120mm (Coiled)
Dimensions	Main Unit: 28(D) x 67(Dia.)mm, Sensor: 6(D) x 29(Dia.)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
100 Zone Wi-Fi Alarm Kit	LA5610	$359.00	$319.00	$279.00
Accessories to suit LA5610 Wi-Fi Alarm	**Cat.**	**Qty 1+**	**Qty 2+**	**Qty 4+**
Wi-Fi IP Camera to Suit	LA5620	$169.00	$151.90	$134.90
Spare PIR - Wireless	LA5614	$54.90	$49.40	$43.90
Spare Reed Switch - Wireless	LA5616	$39.90	$35.90	$31.90
Spare Keyfob	LA5618	$39.90	$35.90	$31.90
Bell Box Siren	LA5619	$119.00	$106.90	$94.90
Garage Door Sensor*	LA5613	$79.90	$71.90	$63.90
Flood Sensor*	LA5615	$79.90	$71.90	$63.90
Shock Sensor*	LA5617	$79.90	$71.90	$63.90
Temperature Sensor*	LA5621	$99.90		

For next day delivery, or Click and Collect, see page 5

Alarm Accessories

QUAD ELEMENT PIR DETECTORS

Reliable and effective quad element PIR detectors for home or office security applications. Compact, attractive and easy to install with the features to match. It has a built-in automatic temperature compensation to help eliminate false triggers in certain environments. 110 degree convex honey comb hemispherical infrared lenses are used and has an extremely low current draw at 8mA. Features a swivel bracket for quick position adjustment.

- Detection type: Quad element low noise pyroelectric sensor
- LED indicator: Walk test enabled by internal link
- Tamper switch

SPECIFICATIONS	LA5046
Operating Voltage	9-15VDC
Current Draw	8mA nominal at 12VDC
Range	12m max
Field Of View	110 degrees max
Mounting Height	1.5m-2.4m
Alarm Output	NC, when cover on, 28VDC 0.1A
Warm Up Period	90 seconds
Pulse Count	1, 2 and 4 pulses selectable
Dimensions	104(H) x 66(W) x 47(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
Quad	LA5046	$48.90	$43.90	$38.90

ALARM RELAY MODULE 2 X 15A

When it comes to large alarm installations, there is often a requirement to have several sirens and strobe lights. In order to do this safely, the best way is to use an isolated relay module. This enables you to supply an external power source so as not to overload the power supply on the alarm panel and switch high currents to multiple sirens and strobe lights.

- 15A Switching current
- NO and NC contacts
- Isolated to protect the alarm panel
- Relay coil protection for spike free operation

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5558	$29.90	$26.90	$23.90

Reed Switch Magnet Assemblies

NC REED SWITCH*

Ideal for burglar alarms.
*Normally open, but closed when near magnet (see note below right).

SPECIFICATIONS	SM1002
Total Length	44mm
Glass Length	16mm
Contact Rating	10W
Switching Voltage	200VDC (max)
Switching Current	0.5A (max)
Carrying Current	1.0A (max)

	Cat.	Qty 1+	Qty 10+	Qty 25+
Reed Switch	SM1002	$2.50	$2.00	$1.80

NC REED SWITCH & MAGNET

These are used to secure an alarm circuit on a door or window. Sold as a pair, one has a magnet inside, the other a reed switch. They have powerful magnets, with self adhesive or screw mount. Screw terminating. Size same as LA5070. Contacts open when magnets are apart and closed when together.

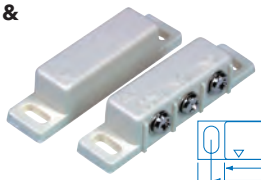
	Cat.	Qty 1+	Qty 4+	Qty 8+
Reed Switch	LA5072	$6.90	$6.20	$5.50

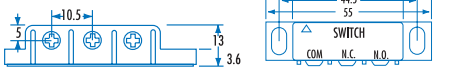
tech talk Normally Closed

Normally CLOSED (NC) per pair. Burglar Alarm Industry Standard

NO & NC REED SWITCH & MAGNET

You have both types of contacts on the one unit. Normally Open (NO) and Normally Closed (NC) per pair.
Temperature: -40˚C to 80˚C





	Cat.	Qty 1+	Qty 4+	Qty 8+
Reed Switch	LA5070	$7.90	$7.20	$6.50

FLUSH MOUNT REED SWITCH & MAGNET SETS

Just drill a recess in your door or window and the magnet flush mounts to be "invisible". The reed switch segment is similarly mounted into the door frame or window frame & wired into your system. Available in two versions to suit timber or metal frames with both versions normally closed contact.

TAPERED VERSION TO SUIT TIMBER FRAMES

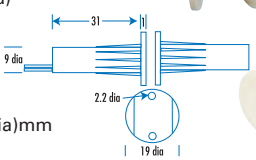
- Dimensions: 31(L) x 9(Dia) mm
- Surface Diameter: 19mm

CAT. LA5075

TOOTHED VERSION TO SUIT METAL FRAMES

- Dimensions: 19(L) x 19(Dia)mm
- Surface Diameter: 24mm

CAT. LA5076



NORMALLY CLOSED (NC) PER PAIR

	Cat.	Qty 1+	Qty 4+	Qty 8+
For Timber Frame	LA5075	$6.90	$6.20	$5.50
For Metal Frame	LA5076	$7.90	$7.20	$6.50

NC MINIATURE REED SWITCH & MAGNET

Absolutely tiny, these encapsulated reed/magnet switches with leads are ideal for home and car security. Their size should make them extremely easy to conceal so that potential thieves are less likely to disable them.
Made from moulded plastic.

- White in colour.
- Supplied with 300mm lead
- Dimensions: 33(L) x 8(W) x 8.5(D)mm
- Width including mounting tab: 15mm
- Hole spacing: 18mm
- Wire lead length: 300mm

NORMALLY CLOSED (NC) PER PAIR

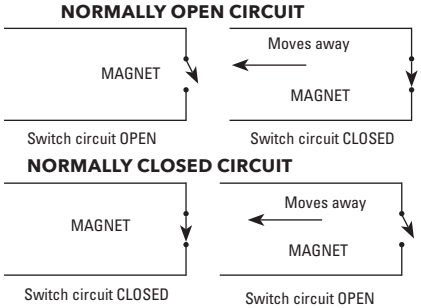
	Cat.	Qty 1+	Qty 4+	Qty 8+
Mini Reed Switch	LA5074	$8.90	$7.70	$6.70

product data

We have so much data and fact sheets we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

tech talk Normally Open & Closed Circuits

This is when the switch contacts are touching in the presence of a switching magnet. The contacts OPEN when the magnet is removed. This is the most common system in alarm circuits.



Alarm Strobes

BLUE 12V SIREN/STROBE

A combined siren and LED strobe for alarm systems. It has 120dB output with low power consumption.

- Output: 120dB
- Operating voltage: 12VDC
- Dimensions: 120(L) x 72(W) x 42(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5306	$18.90	$16.90	$14.90

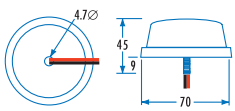
tech talk Aircraft Owners/Operators

If you operate mobile equipment on the aircraft side of an airport you must fit an amber flashing light on such equipment. Save yourself a fine & wire an amber unit to your vehicle. All units are 12V powered. Simply wire across ignition circuit so that strobe automatically comes on when vehicle is started.

MINI SIZE - LED

LED strobes for security, alarm or emergency use. Low current consumption units are fully sealed and waterproof; suitable for outdoor alarm applications. Mounts with 2 x 5mm bolts.

- 12VDC operation
- Dimensions: 70(Dia) x 45(H)mm



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
Blue	LA5326	$24.90	$22.30	$19.70
Red	LA5327	$24.90	$22.30	$19.70
Amber	LA5328	$24.90	$22.30	$19.70

Alarm Sirens

SMALL 'TWEETIE PIE' SIREN

This incredible little piezo 'tweetie pie' screamer emits a 105dB wail. The sound at close range is almost unbearable, ideal for any compact high noise alarm application.

- Current 200mA max
- Measures 57(L) x 40(H) mm - less bracket
- Operating voltage: 12VDC

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5255	$24.90	$22.40	$19.90

LARGE 'TWEETIE PIE' SIREN

This piezo screamer is the original Tweetie Pie's big brother. It is ideal if space is not too much of a problem, but it's still far smaller than all our other sirens. This screamer is louder than the smaller Tweetie Pie, it's 119dB and draws only 250mA.

- Colour is black
- Measures 90(L) x 62(W) x 70(H)mm incl. mounting bracket
- Operating voltage: 12VDC

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5254	$34.90	$31.90	$27.90

PIEZO SIREN

This piezo screamer emits a 105dB wail, the sound at close range is almost unbearable. Ideal for any compact high noise alarm application. Supplied with mounting bracket and connecting cable.

- Height 100mm (from mounting bracket to top)
- Length 80mm, 80mm diameter.
- Operating voltage: 12VDC
- Resonant Freq: 3kHz
- Sound Output: 120dB
- Current Drain: 300mA

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5258	$34.90	$31.90	$27.90

INDOOR PIEZO SIREN

This unit is very popular for indoor use with house alarms. It is dustproof & waterproof.

- Voltage range: 7.5 to 15V
- Current (approx): 200mA @12V
- Output: 100-105dB @ 1m
- Dimensions: 85(Base) x 42(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5256	$12.90	$11.30	$9.90

PLASTIC SIREN COVER

RUSTPROOF & UV STABILISED - Remains attractive in any environment. Accepts 5" siren, has 3 holes drilled for strobe & tamper switch bracket.

- 5 year warranty for UV protection
- 175 x 155mm at back / 125 x 125mm at front
- Depth 145mm
- White in colour
- Includes tamper switch

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5112	$31.90	$28.70	$25.50

5" HORN SPEAKER

Fully weatherproof. Unique voice coil construction ensures high dependability on full drive.

- Suitable for PA, intercom, security systems, etc.
- 10 watt - 8 ohm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS3180	$18.90	$16.90	$14.90

5" X 8" HORN SPEAKER

This attractive unit in high impact white plastic features stainless steel hinge bolts. The special bracket enables maximum flexibility in mounting. Ideal for any outdoor application including marine.

- Rated at 30 watts power handling
- 8 ohm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS3190	$49.90	$44.90	$39.90

PIEZO 4 TONE SIREN WITH CONTROLLER

A very loud 125dB siren, it has four different tones - police, ambulance, fire engine or truck air horn. Connects to a 12VDC power source and select a tone with the controller. Sturdy moulded plastic construction with metal mounting bracket.

- 125dB
- 12VDC
- Dimensions: 150(L) x 130(Dia)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA5259	$36.90	$33.20	$29.50

Thomas Harrison likes to

think. possible.

"My favourite piece of technology is the robot used in pharmacies . They sort out pill packs for patients. They are used to limit mistakes and take less time. I think that the robot whil eventually become advanced enough to fully run the pharmacy or at least operate a till."

where's my local Jaycar store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

For next day delivery, or Click and Collect, see page 5

Standalone Alarms

MOTION ACTIVATED ALARM WITH REMOTE CONTROL

Avoid messy wiring and protect your belongings with ease using our battery operated, motion activated alarm. The PIR sensor provides 120˚ coverage, triggering a 120dB+ alarm when breached. Use the remote control to arm or disarm the alarm. Flick the switch to chime and be notified as people enter or leave your room. It is a simple but effective deterrent against intruders.

- Remote control to arm or disarm the alarm unit
- A delay feature to give you time to leave the room
- 120dB+ alarm
- 120° coverage
- Easy to install mounting bracket
- The alarm unit requires 3 x AA batteries
- The remote control includes 1 x CR2032 battery
- PIR Sensor Dimension: approx. 114(L) x 61(W) x 29(D)mm
- Remote Dimension: approx. 64(L) x 32(W) x 7(D)mm

RED SHIELD™ 1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Motion Activated Alarm	LA5217	$43.90	$39.50	$35.00

WINDOW & DOOR SENSOR ALARM

This is a fully self-contained audible alarm for use on doors and windows. Installed in seconds using the provided self-adhesive strips, one part on the door or window, and one part on the door frame or wall adjacent. It can be set to chime for entry alert, or as a siren for security.

Also available in a pack of two: LA5209.

- Batteries: 4 x LR44 batteries included
- Dimensions: Sensor: 33(W) x 62(H) x 15(D)mm, Contact: 10(W) x 62(H) x 15(D)mm

LA5209

RED SHIELD™ 1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Twin Pack	LA5209	$19.90	$17.90	$15.90

CEILING MOUNT ALARM WITH REMOTE CONTROL

A dual purpose unit that can be used as a simple entry chime, or as a self contained alarm system. Installation takes just minutes and being battery operated, blackouts won't be a problem. It detects movement via a passive Infrared sensor and the ear piercing 110dB siren means that everyone will know if there is an intruder. A remote control is included so you won't have to climb a a ladder to turn it on and off!

SPECIFICATIONS	LA5215
Power	3 x AA batteries
Typical Battery Life	6 months
Pir Range	>3m
Siren Duration	30 seconds
Entry Delay	30 seconds
Remote Range	>6m

RED SHIELD™ 1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Movement Activated	LA5215	$48.90	$44.00	$39.10

automatic account

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations – we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

WINDOW & DOOR ENTRY ALARM

NEW

Simple security! Fully self-contained window alarm and battery powered. Mount the alarm unit on a window or door frame, and the magnetic reed switch on the window or door itself. When the two separate, the alarm sounds with a 90dB siren! Double sided tape included.

- Batteries: 3 x LR44 batteries included
- Dimensions: Sensor: 42(W) x 62(H) x 25(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LA5206	$14.90	$13.90	$11.90

PRESSURE ACTIVATED MAT ALARM WITH SIREN & STROBE

Easy to install and maintain, simply slide the pressure sensitive pad under your door mat to be notified of guests when they arrive at your front door or to surprise and deter would-be intruders. The alarm unit is battery operated and supplied with a mounting bracket. Flick the switch to chime when you are at home, flick it to alarm when you are away.

- Super loud 120dB+ siren
- Red strobe light
- Toggle switch, off/chime/alarm
- Requires 1 x 9V Alkaline Battery (not included)
- Lead length: 4m
- Mat dimensions: approx. 488(L) x 331(W)mm
- Buzzer dimensions (without bracket): approx. 97(L) x 54(W) x 33(D)mm

RED SHIELD™ 1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pressure Alarm	LA5218	$43.90	$39.50	$35.00

Panic Alarms

PERSONAL DUAL ALARM WITH LED TORCH - 130DB

Deter thieves and attackers with its loud dual 130dB sirens and powerful independent torch function which will strobe when the alarm is activated. Simply pull the rip-cord to pull out the pin. Replace the pin to deactivate the alarm. Also includes a LED light. Fantastic for travellers.

- Traditional ripcord or key chain activation
- Includes 4 x LR44 batteries
- Dimensions: 105(L) x 28(W) x 15(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
Personal Alarm	LA5181	$17.90	$15.90	$14.30

PERSONAL ALARM KEYRING

Personal alarms take many forms, but this is disguised as an inconspicuous car key and easy to use. Simply pull the pin and a loud 100dB siren activates, distracting a potential threat and attracting attention. Includes a ball point pen inside the tip of the key if you ever need to write a quick note.

- Siren: 100dB
- Battery: 4 x LR41 (Included)
- Dimensions: 190(H) x 130(W) x 12(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
Personal Alarm Keyring	LA5175	$14.90	$13.90	$11.90

100DB RED MINI PERSONAL ALARM WITH TORCH

Attaches to your handbag, backpack or keychain. In vulnerable or threatening situations simply pull the keychain to activate the powerful 100dB alarm (Turn off by re-inserting the pin). Also includes a handy LED light, pushbutton activated. Red in colour.

- Key chain activation
- 100dB loud siren
- Includes 3 x LR44 batteries
- Dimensions: 60(L) x 40(W) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
100dB Red Mini Personal Alarm	LA5141	$10.90	$9.90	$8.90

event recorders

record the incident

A lot of the spectacular video seen on the TV News comes these days from devices called Event Recorders. They can be attached to the windscreen of your car, in a shop (acting as a security camera) or even in a bushland setting to record animal or intruder activity. They offer quality pictures & draw very little power. They can be movement triggered or not. They have really changed the way we live in the world, as you never know when you are being electronically observed these days. Jaycar has a great range to suit every application & budget.

UNIDEN IGO CAM 50 CAR EVENT CAMERA WITH GPS AND REAR CAMERA

NEW

This slim and feature-packed dash camera includes a rear-facing camera to record vision from behind you as you drive, but also doubles as a reversing camera when you are reverse parking or backing out of your driveway. It has all the features you would expect in a modern dash cam, including 1080p front-facing camera with ultra-wide 150° view, 3-axis G-sensor, loop recording, photo mode, and GPS geotagging of speed and location. Plug in your microSD card and the vision from the front-facing HD camera and VGA rear camera will be recorded simultaneously, which you can playback on the integrated 2.7" colour screen. Other notable features include the large speedo display for a quick-and-easy reading of your current speed, headlight low lux warning, and a parking mode that triggers recording if it detects sudden vibration, even when the car is switched off while parked.

- 1080p full HD front camera
- VGA rear camera doubles as reversing camera
- Simultaneous 2-channel recording
- 3-axis G-sensor
- 150° ultra-wide view
- GPS geotagging
- 2.7" colour LCD
- Large speedo display

1 YEAR WARRANTY

UNIDEN IGO CAM 80 4K UHD CAR EVENT CAMERA

NEW

This feature-packed dash cam records ultra-high definition 4K video (2160p) as you drive, along with audio, and the speed and location from the built-in GPS. An ultra-wide 150° lens captures a wide field of view, and the footage is made sharp and clear thanks to the Wide Dynamic Range (WDR) that balances the light on days of high contrast, or at night when lights are bright. Review footage on the built-in 2.4" colour screen, on your Windows PC, a HDTV or monitor using HDMI (cable not included), or directly transfer to your Smartphone via Wi-Fi using the free Uniden iGo app. Other features include loop recording, large speedo display, parking mode, speed/red light camera warnings, and footage lock protection to avoid overwriting important video. This camera is also perfect for recreational road users to capture scenic drives and off-road adventures in crisp detail.

- 2160p 4K video resolution with Wide Dynamic Range (WDR)
- 3-axis G-sensor
- 150° ultra-wide view
- GPS geotagging
- 2.4" colour LCD
- Dual channel recording
- GPS geotagging
- Speed/Red light camera warnings
- Wi-Fi for direct footage transfer to smart device
- HDMI output
- Smartphone app
- Footage lock protection
- Large speedo display

Wi-Fi

1 YEAR WARRANTY

Uniden®

SPECIFICATIONS	QV6000
LCD Screen Size	2.7"
Video Resolution	1080p front camera, 640x480 rear camera
Lens Angle	150° (front), 110° (rear)
Video Compression	H.264
Video File Format	MOV
Storage	Up to 128GB microSD (Class 10)
Battery	Li-ion 320mAh
Power	5V, 1.5A

Cat.	Qty 1+
QV6000	$229.00

Uniden®

SPECIFICATIONS	QV6002
LCD Screen Size	2.4"
Video Resolution	2160p 4K
Lens Angle	150° (front)
Video Compression	H.264
Video File Format	MOV
Storage	Up to 128GB microSD (Class 10)
Battery	Li-ion 320mAh
Power	5V, 1.5A

Cat.	Qty 1+
QV6002	$319.00

For next day delivery, or Click and Collect, see page 5

Event Recorders - Dash Cams CONTINUED

1080P 2 INCH CAR DASH CAMERA

1 YEAR WARRANTY

This unit is packed full of features with its unobtrusive size and full 1080p camera. The integrated 2" LCD provides you with playback and control functionality while the strong suction cup mount holds it firmly to your windscreen. Recording can be triggered manually or by loop recording which will overwrite the footage once the microSD card is full. Its suitable with use with cars and trucks with the included 12-24VDC cigarette lighter power supply. Supports microSD cards up to 32GB, while the wide 140° lens provides maximum view. Includes suction cup mount, car cigarette lighter charger and USB cable.

- G-Sensor. Manual & Loop Recording
- Parking Mode. Wide 140° Lens
- Auto Power On Recording
- 12/24VDC Operation
- In-Built Mic & Speaker

SPECIFICATIONS	QV3845
LCD Screen Size	2"
Video Resolution	Up to 1080p
Camera Resolution	3MP
Lens Angle	140°
Video Compression	MJPEG
Video File Format	AVI
Storage	Up to 32GB microSD
Battery	Li-ion 3.7V, 180mAh
Power	5VDC/1.5A
Car Charger	12-36VDC
Dimensions	53(H) x 49(W) x 35(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p 2 Inch Car Dash Camera	QV3845	$79.90	$71.90	$63.90

1080P CAR DASH CAMERA WITH GPS AND WI-FI

NEW

Compact in size, but packed with a Full HD 1080p camera! A large 2.7" screen on the back is included for view/review functions, while a built-in G-sensor automatically locks the recording when a collision or crash is detected so it cannot be looped over.
The wide 140° lens offers a great field of view, while the adjustable suction mounting bracket gives you total control over the position. GPS geotagging records the vehicle's speed and location, and Wi-Fi connectivity allows playback of photos or video using the freely available app on the App Store or Google Play. Works on 12-24VDC systems, so it's suitable for trucks too. Audio mic/speaker built-in, as well as a rechargeable battery so it can provide monitoring while parked too.

- G-Sensor
- Wide Dynamic Range Lens
- Loop & Manual Recording
- Parking Mode
- Wide 140° Lens
- Auto Power On
- 12/24VDC Operation
- In-Built Mic & Speaker

1 YEAR WARRANTY

Wi-Fi

SPECIFICATIONS	QV3848
Display	2.7" LCD
Video Resolution	1080p (1920 x 1080), 720p (1280 x 720)
Image Resolution	2MP
Frame Rate	30fps
Lens Angle	140°
Video Compression	H.264
Video File Format	MOV
Storage	Up to 64GB microSD
Battery	Li-Ion 3.7V, 300mAh
Power	5VDC @ 1.5A
Car Charger Voltage Input	12-36VDC
Dimensions	76(W) x 55(H) x 34(D)mm (Excluding Mount)

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QV3848	$159.00	$142.90	$126.90

1080P COMPACT CAR DASH CAMERA WITH GPS AND WI-FI

1 YEAR WARRANTY

Wi-Fi

A very versatile, full 1080p HD dash camera. It's Wi-Fi enabled to allow footage playback and sharing from your iOS™ or Android enabled device using the free app. This unit features starlight video recording which provides you enhanced night vision while driving. The unit supports monitoring while parked, so it will start recording for a short period of time if a car crashes into you. Of course recording can be set to loop, manual or motion triggered; with auto loop to record over old footage when the card is getting full. An internal battery provides functionality while the car is switched off too! It includes a strong windscreen mount, and is compatible with 12 and 24V systems, so it works in a truck too! Includes car cigarette lighter charger, USB cable and a spare adhesive mount.

- Wi-Fi Smartphone Playback & Video Sharing
- Free Android & iOS™ Smartphone App
- Starlight Enhanced Night Vision
- Parking Mode
- Loop, Motion & Manual Recording
- Windows & Mac™ Open Street Map Software
- Auto Power On Recording
- 12/24VDC Operation
- In-Built Mic & Speaker

Available on the App Store

ANDROID APP ON Google play

SPECIFICATIONS	QV3865
LCD Screen Size	1.2"
Video Resolution	Up to 1080p
Camera Resolution	3MP
Lens Angle	120°
Video Compression	H.264
Video File Format	MP4
Storage	Up to 64GB microSD
Battery	Li-ion 3.7V, 180mAh
Power	5VDC/1.5A
Car Charger	12-36VDC
Dimensions	87(H) x 50(W) x 36(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p Wi-Fi Dash Cam with GPS	QV3865	$219.00	$196.90	$174.90

1296P UHD CAR DASH CAMERA WITH GPS AND REAR CAMERA

NEW

A feature rich dash camera with a Super HD camera to record the finer details such as number plates. The supplied rear-facing camera records vision from behind you as you drive, and doubles as a reversing camera when you are reverse parking or backing out of your driveway. A large 3" screen on the back is included to view/review functions, while a built-in G-sensor automatically locks the recording when a collision or crash is detected so it cannot be looped over. The wide 140° lens offers a great field of view, while the adjustable suction mounting bracket gives you total control over the position. GPS geotagging records the vehicle's speed and location. Works on 12-24VDC systems, so it's suitable for trucks too. Audio mic/speaker built-in, as well as a rechargeable battery so it can provide monitoring while parked too.

- 2K Recording
- Rear Camera
- GPS Geotagging
- G-Sensor
- Wide Dynamic Range Lens
- Loop & Manual Recording
- Parking Mode
- Wide 140° Lens
- 12/24VDC Operation
- In-Built Mic & Speaker

1 YEAR WARRANTY

SPECIFICATIONS	QV3849
Display	3.0" LCD
Front Camera	Video Resolution: Up to 1296p Image Resolution: 3MP Frame Rate: 30fps Lens Angle: 140°
Rear Camera	Video Resolution: 640 x 480 Lens Angle: 60° Waterproof Rating: IP65 Working Voltage: 5VDC Cable length: 5.5m
Video Compression	H.264
Video File Format	MOV
Image File Format	JPG
Storage	Up to 64GB microSD
Battery	Li-ion 3.7V, 300mAh
Power	5VDC @ 1.5A
Car Charger Voltage Input	12-36VDC
Dimensions	85(W) x 61(H) x 32(D)mm (Excluding Mount)

	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p (Front facing camera)	QV3849	$229.00	$199.00	$179.00

Reversing Cameras

	QM3840	QM3856	QM8046	QM3742
LCD Screen Dia.	4.3"	4.3"	7"	7"
Camera Type	Wireless	Wireless (Long Range)	Wireless	Wired
Cameras Supplied	1	1	1	1
Camera Channels	2	2	2	2
Built-in IR LEDs	•	•	•	•
Power Input	12/24V	12/24V	12/24V	12/24V
Page	285	285	286	286

2.4GHZ DIGITAL WIRELESS 4.3" REVERSING CAMERA

The best thing about wireless cameras is that they are easy to install and use. This camera kit consists of an LCD monitor and reversing camera for the rear of your car. The LCD monitor plugs directly into your car's cigarette lighter socket, receives video wirelessly from the camera. The camera can be connected to a suitable power source at the rear of the vehicle.

- 2.4GHz digital wireless technology
- 12/24VDC operation
- 50m transmission range
- Infrared night vision

1 YEAR WARRANTY

SPECIFICATIONS	QM3840	MONITOR		CAMERA	
Frequency	2.4GHz Digital	LCD	4.3"	Resolution	640 x 480
Voltage Input	8-30VDC	Resolution	480 x 272	Image Sensor	1/4" CMOS
Range	Up to 50m	Current Consumption	Up to 180mA	Lens Angle	105°
		Dimensions	140(L) x 87(W) x 21(H)mm	Infrared LEDs	6
				IP Rating	IP65
				Current Consumption	Up to 220mA
				Dimensions	84(W) x 42(H) x 36(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
2.4GHz Digital Wireless 4.3" Reversing Camera	QM3840	$259.00	$229.00	$199.00
Spare Wireless Camera to Suit	QM3854	$129.00	$115.90	$102.90

2.4GHZ DIGITAL LONG RANGE REVERSING CAMERA KIT

Confidently manoeuvre your caravan, truck, 4WD or trailer and avoid unseen or unexpected obstacles when reversing with this wireless camera kit. The 4.3" colour display and camera features signal stabilisation and processing for high speed observation of up to 100m range as standard reversing cameras will not provide enough distance to reach a caravan, truck or trailer. Prior to travelling, securely affix the camera in place and plug the monitor into your vehicle's 12V auxiliary power outlet, then pair them to adjust the camera to the preferred angle. You can pair up to two cameras with an additional camera (QM3857) being placed on your car or 4WD and one on your caravan or trailer to have a dual camera display or be viewed individually. The camera features infrared night vision, adjustable angle and waterproof housing to ensure it will cope in the harshest weather conditions. Includes suction cup mount & cigarette lighter plug power for the monitor

- On-Screen Backup Guideline
- 12/24VDC Operation
- Infrared Night Vision

CAMERA		MONITOR	QM3856
Frequency	2.4GHz Digital	Frequency	2.4GHz Digital
Resolution	720 x 480	LCD	4.3"
Image Sensor	1/3" CMOS	Resolution	480 x 272
Lens Angle	110°	Range	Up to 100m
Infrared LEDs	6	Antenna	3dBi
Antenna	3dBi	Voltage Input	8-30VDC
IP Rating	IP65	Current Consumption	Up to 250mA
Voltage Input	8-30VDC	Dimensions	140(L) x 87(W) x 21(H)mm
Current Consumption	Up to 350mA		
Dimensions	84(W) x 42(H) x 36(D)mm		

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Reversing Camera Kit	QM3856	$299.00	$269.00	$239.00
Spare Parts	**Cat.**	**Qty 1+**	**Qty 2+**	**Qty 4+**
Spare Camera to Suit	QM3857	$169.00	$151.90	$134.90
Spare Suction Cup Mount to Suit **Not stocked in all stores*	QM3859	$5.60	$5.00	$4.40

For next day delivery, or Click and Collect, see page 5

Wireless Reversing Camera Kits CONTINUED

2.4GHZ DIGITAL WIRELESS REVERSING CAMERA WITH 7" LCD DISPLAY

Utilising digital 2.4GHz wireless technology, this wireless reversing camera system offers up to 80m range with crystal clear picture quality and negligible video lag. Ideal for large vehicles with big blind spots such as trucks, buses, RV's, etc. The IP65 waterproof camera supplied comes fitted with IR LEDs for operation in low light conditions. Video is displayed on the slimline 7" LCD monitor, which has a quick latch bracket, so it can be easily removed & hidden away from prying eyes when not in use.

Additional cameras for system expansion are available - QM8047.

SPECIFICATIONS	QM8046
LCD	7"
Power	12 - 24VDC
Range	Up to 80m
Image Sensor	1/4" Colour CMOS
Dimensions	205(L) x 120(H) x 25(D)mm
Effective Pixels	640 x 480
Frequency	2.4GHz Digital
Channels	2
TV System	PAL
Dimensions	225(L) x 160(W) x 40(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
7" LCD Display	QM8046	$389.00	$349.00	$309.00
Wireless Infared Camera	QM8047	$139.00	$124.90	$110.90

Wired Reversing Camera Kits

ULTIMATE REAR-VIEW SYSTEM - WIRED

This unit enables you to monitor the area to the rear of a bus, truck, caravan, RV etc, view a much wider field-of-view than any rear view mirror array and works in the dark with IR lighting. The system comes with a 7" (diagonal) LED display that has two video inputs, so you could (for example) have another camera monitoring, say bus passengers (camera extra). The rear vision camera is fitted with a SHARP (Japan) CCD device with 18 x IR LEDs for night vision illumination. The housing of the camera is metal, IP65 and has a gymbal bracket. It can be mounted externally. The kit is supplied with 10m of preterminated connecting cable. A remote control for the monitor is also provided.
In keeping with the professional status of the product, it will work from 12 or 24VDC.
Camera measures 74 x 48 x 65mm

SPECIFICATIONS	QM3742
LCD	7"
Power	12/24VDC
Range	Wired
Image Sensor	Sharp
Camera Resolution	420 TV Lines
Frequency	Wired
Channel	2
TV System	PAL/NTSC
Dimensions	178(L) x 120(H) x 28(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Reversing Camera with 7" Display	QM3742	$309.00	$279.00	$245.00
10m Camera Extension Lead	QM3743	$18.90	$16.90	$14.90

Reversing & Side Cameras

FLUSH MOUNT MINI WATERPROOF CAMERA FOR CARS OR TRUCKS

SPECIFICATIONS	QC3530
Sensor	PC7070
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0Lux
IP Rating	IP67
Video Out	1Vp.p. 75 ohm
Power Supply	9-12VDC
Dimensions	18.5(Dia.)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CMOS	QC3530	$69.90	$62.90	$55.90

COLOUR CCD WIDE ANGLE WATERPROOF REAR VIEW CAMERA

SPECIFICATIONS	QC3532
Sensor	PC7070
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video Out	1Vp.p. 75 ohm
Power Supply	8-12VDC
Dimensions	22(W) x 15(Dia.)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CCD	QC3532	$69.90	$62.90	$55.90

FLUSH MOUNT CCD REAR VISION CAMERA

SPECIFICATIONS	QC3534
Sensor	PC7070
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video Out	1Vp.p. 75 ohm
Power Supply	9-12VDC
Dimensions	26(Dia.)mm including bezel

	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CCD	QC3534	$149.00	$133.90	$118.90

BUS / TRUCK CAMERA WITH INFRARED LEDS - CCD

SPECIFICATIONS	QC3536
Sensor	Sharp ¼ CCD
Resolution	420 TV lines
View Angle	120°
Minimum Illumination	0.5Lux
IP Rating	IP67
Video Out	1Vp.p. 75 ohm
Power Supply	12VDC
Dimensions	74(W) x 65(H) x 48(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
420TVL CCD	QC3536	$149.00	$133.90	$118.90

Car Security

STEELMATE ENTRY LEVEL CAR ALARM WITH VOICE FUNCTION

An affordable car alarm that features voice feedback on alarm status and operational parameters such as open doors etc.

What you get:
- Electronic black box controller
- Shock sensor, Ignition cutout relay
- Speaker siren
- Wiring looms
- Bonnet pin switch
- Car charger for the remote controls
- Extra circuits for fuel and ignition cutout
- 2 x Code hopping remote control units, one with a built in torch!

Kit includes:
- Metallic water resistant 5-button transmitters
- Dedicated boot release button
- Voice warning (ON / OFF)
- Valet mode
- Anti-hijacking, emergency call & locating
- Emergency override

Also good for:
- Vans with expensive stuff in the back
- Large enclosed trailers

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Car Alarm	LA9003	$159.00	$142.90	$126.90
Spare Remote	LA9004	$45.90	$40.90	$36.40
Spare Remote Car Charger	LA9021	$12.90	$11.30	$10.30

Central Locking

4 DOOR REMOTE CONTROLLED CENTRAL LOCKING KIT WITH KILL SWITCH

1 YEAR WARRANTY

Lock and Unlock your car doors from a distance without having to fumble around with keys. Includes outputs to flash the indicators for visual confirmation, as well as outputs for sunroof and window closers (where fitted). An additional security button can be installed to cut off the fuel pump to prevent the car being stolen. Supplied with 1 master actuator, 3 slave actuators, and control relay, two remotes with batteries, kill switch, hardware and wiring loom.
- Working voltage: 9 - 16VDC
- Frequency: 433.92MHz

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LR8842	$109.00	$97.90	$86.90

MASTER & SLAVE DOOR LOCK ACTUATORS

Durable, waterproof and dustproof with Japanese mechanics, and supplied with universal mounting hardware. Wiring not included.
- Japanese Mabuchi motor
- Original Nylon and POM
- PTC overload protection
- Life cycle: 100,000 times
- Push/Pull force: > 4.0 kg
- Input voltage: 9 - 16VDC

MASTER DOOR LOCK ACTUATOR Cat. LR8815

SLAVE DOOR LOCK ACTUATOR Cat. LR8813

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Master	LR8815	$18.90	$16.70	$14.70
Slave	LR8813	$17.90	$16.10	$14.30

4 DOOR POWER LOCK KIT

Add that touch of luxury to your car with this low cost 4 door central locking kit, so when you unlock the drivers door the other three doors will also unlock. It can be connected to car alarms with a negative triggering locking output, or used with our LR8839 remote controller for keyless entry.
- Supplied with 1 master, 3 slave actuators, control relay, hardware and wiring loom

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Door Power Lock Kit	LR8812	$49.90	$44.90	$39.90

REMOTE CONTROLLED CAR CENTRAL LOCKING SYSTEM

Upgrade to a remote keyless car entry with this system. On rainy or windy days where you need a quick entry, unlock your doors as you approach the car. The system is easy to install with 2 keyfob and comes with two remote keyfobs.

SPARE REMOTE CONTROL

Spare Remote Control for LR8839 Central Locking System. Supplied with one 12V battery (For replacement batteries use our SB2422.)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
Central Lock System	LR8839	$62.90	$56.50	$50.50
Spare Remote	LR8837	$24.90	$22.30	$19.70

CAR BOOT / HATCH RELEASE

This great little gadget installs on your boot or hatch lock so that unlocking simply involves pressing a button (supplied)! Solenoid comes with mounting bracket, wiring loom (fuse included), dash mount pushbutton switch and installation instructions.
- Solenoid Unit (including bracket): 95(L) x 43(D) x 58(H)mm
- Switch (on L bracket): 50(H) x 44(W) x 40(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LR8834	$47.90	$42.90	$38.40

Deterrent Light

DASH MOUNT FLASHING LED -12V

With a metal bezel and a very bright 5mm LED, this flasher is excellent as a fake car alarm. Installed on your dash, thieves can be led to believe that your car is alarmed).

SPECIFICATIONS	LA5082
Bezel Dimensions	30(D) x 7(W)mm
Face Diameter	11mm
Operating Voltage	12V
Wire Lead Length	400mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	LA5082	$8.90	$7.90	$6.20

Rod Mitchell likes to

think. possible.

"Attentis Sensor technology is the technology that will transform the way we operate tomorrow. By digitally collating and then placing dashboard information via IOT to the end user the world will be a better place. This intelligent network can detect smoke, flames, air quality, movement, weather, take photographs and more."

For next day delivery, or Click and Collect, see page 5

Tamper Switches

TAMPER (PIN) STYLE - 2 PACK

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel. Bullet connector termination

	Cat.	Qty 1+	Qty 4+	Qty 8+
Pack of 2	LE8775	$7.90	$7.20	$6.50

METAL TAMPER (PIN) STYLE - 2 PACK

Ideal for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade lug.

SPECIFICATIONS	LE8776		
Length (Main Body)	38mm	Including Plug & Lug	70mm
Shaft Diameter	7.75mm	Fascia Nut Size	11mm
Locking Nut Size	12mm	Travel (Max)	13.5mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE8776	$9.90	$8.50	$7.50

METAL FASCIA INSET PIN SWITCH - 2 PACK

Inset pin switch with plated metal fascia. Suitable as a replacement door switch. The sturdy plunger can be cut to length. Termination via right angle 6.4mm spade lug.

SPECIFICATIONS	LE8777
Fascia	34.5 x 16.5mm
Pin	27(L) x 8(dia)mm
Depth Behind Fascia	15mm (not inc lug & pin)
Overall Depth	51mm
Travel (Max)	8mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE8777	$9.90	$8.50	$7.50

VAN SLIDING DOOR STYLE

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions. Contacts are rated at a massive 20A @ 12V

	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC 20A Each	LE8779	$22.90	$20.30	$17.90

Strobes

12VDC WATERPROOF LED STROBE LIGHTS

LED strobes for security, alarm or emergency use. Low current consumption units are fully sealed and waterproof; suitable for outdoor alarm applications. Mounts with 2 x 5mm bolts.

- Dimensions: 70(Dia) x 45(H)mm

Colour	Cat.	Qty 1+	Qty 4+	Qty 8+
Blue	LA5326	$24.90	$22.30	$19.70
Red	LA5327	$24.90	$22.30	$19.70
Amber	LA5328	$24.90	$22.30	$19.70

12VDC LED STROBE LIGHT WITH MAGNETIC BASE

1 YEAR WARRANTY

Designed to be mounted on to the roof for maximum visibility. Moulded curly cord with cigarette plug for power. Note: For off-road use only.

- 40 super bright, high intensity LEDs
- Cigarette lighter plug for power
- Heavy duty magnetic base for secure mount
- Dimensions: 95(H) x 130(Dia.)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC	ST3295	$56.90	$50.90	$44.90

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12/24VDC LED STROBE LIGHT WITH MAGNETIC/ PERMANENT BASE

1 YEAR WARRANTY

- High power amber LEDs
- 10 selectable flash modes
- 12 or 24VDC powered
- Suitable for trucks too

Note: Press pattern button 0.5 seconds for next pattern.

SPECIFICATIONS	ST3278
Power	12 / 24VDC
Cable	1m curly cable with cigarette lighter plug
Mounting	Magnetic feet, or permanent screw mount
Dimensions	280(W) x 165(D) x 62(H)mm (including mounting feet)

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3278	$159.00	$142.95	$126.95

Sirens

WATERPROOF SIREN - 90DB

Suitable for cars, boat and truck applications.

SPECIFICATIONS	LA8901
Operating Voltage	12V - 24VDC
Sound Output	>90dB
Dust And Waterproof Rating	IP66
Termination	Spade lugs
Dimensions	50(L) x 40(Dia.) x 34.5(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA8901	$19.90	$17.90	$15.90

ELECTRONIC SIREN

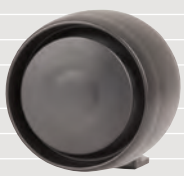
Small sized - ideal for mounting in a cramped engine bay!

SPECIFICATIONS	LA8908
Operating Voltage	12VDC
Sound Output.	125dB
Power Rating	20 watts
Current Draw	1.3 Amp.
Dimensions	70(H) x 67(L) x 59(W)mm including brackets

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA8908	$24.90	$22.40	$19.90

MINI REVERSE WARNING SIREN 12/24VDC

Beeps when power is applied, and features a mute function that you can connect to the parker lights to mute the siren at night time if desired.



SPECIFICATIONS	LA8904
Operating Voltage	9-30VDC
Current Consumption	<200mA
Sound Output	>90dB
Dust And Water Resistance Rating	IP65
Termination	Fly leads
Mounting Hole	6.5mm
Dimensions	55(Dia.) x 37.5(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA8904	$11.90	$10.70	$9.50

SIX-TONE CAR ALARM SIREN WITH BACK-UP BATTERY

This compact siren has a rechargeable back-up battery pack mounted inside the unit, so if the wires are cut, the siren will sound and the only way to disable the unit is to turn it off with a key. Internal batteries are kept on trickle charge so they are always fully charged. Supplied with 2 keys.

SPECIFICATIONS	LA8912
Power	20W
Voltage	12VDC
Impedance	10 ohm
Output.	118dB
Dimensions	100(L) x 61(W) x 57(D)mm including brackets

	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA8912	$29.90	$26.90	$23.90

GPS Tracking Devices

3G GPS/GSM VEHICLE TRACKER

This 3G GSM and GPS Tracking solution will locate and track the whereabouts of your vehicle in real time via the Internet on a computer or Smartphone. The device is easy to install with only 2 - 4 wires to connect. Insert a 3G GSM Sim card (not included) and hide the device away while connecting the external antenna to your windscreen. It works by sending the vehicle's GPS coordinates via the GSM network to the free online tracking service, which shows the location on Google Maps. It can also SMS longitude and latitude coordinates to up to 3 mobile phones, as well as alerts when vehicle exits a pre-determined area or exceeds pre-set speed.

Other features include an engine kill function to remotely disable the petrol pump, and movement sensor to extend battery life. An SOS/Panic button is also supplied which can send an SMS to the pre-programmed mobile phones. The built-in rechargeable Li-Po battery will keep the device functioning for up to 4 days when power is disconnected, which could help you locate the vehicle should it have been stolen and abandoned. There is no installation or on-going tracking charges. You only pay for the GSM sim card and service. Supplied with an external antenna, wiring loom, SOS button and microphone

- Real time & history online tracking website
- Free Smartphone App available on iTunes® & Google Play
- SMS location & tracking return
- Remote engine immobilisation
- Geo fence alarm
- External microphone
- Over speed alarm
- Shock & movement alarm
- External SOS/Panic button
- Rechargeable battery

Please Note: This tracker is compatible with 4G SIM cards, however it only operates on a 3G band.

Tracking Website: www.responsegps.com

1 YEAR WARRANTY

SPECIFICATIONS	LA9026
GPS/GSM Module	3G Quad Band
GSM Frequency	850/900/1800/1900MHz
GPS/GSM Antenna	Internal Windscreen
Location Accuracy	5-10m
Upload Interval	30-999 Seconds
3G Data Usage	0.07KB (Each Upload Interval)
GPS Start Time	1 Second (Hot Start), 36 Seconds (Cold Start)
Operating Voltage	9-30VDC
Tracking Current	5V @ 150mA
Standby Current	5V @ 3mA
Recharging Current	5V @ 400mA
Battery	500mAh Li-ion
Dimensions	90(L) x 53(W) x 20(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Vehicle Tracker	LA9026	$229.00	$199.00	$179.00

3G GPS/GSM PERSONAL TRACKER

Locate and track the whereabouts of a person, personal belonging or vehicle in real time via your mobile phone. The tracker is rechargeable and compact so it can fit unobtrusively inside a pocket, handbag, luggage, vehicle, etc. To operate, simply insert a GSM Sim card (not included), charge and turn on. It then sends it's GPS coordinates via the GSM network to your mobile phone which can be viewed on Google Maps.

Latitude, longitude, speed, direction, date & time, and battery condition or a GoogleMaps website link can be sent at any time by sending an SMS from your mobile phone to the tracker. You can also set it to SMS details once movement is detected, when the tracker is in a pre-determined area, over a preset speed, or when the battery is getting low.

A microphone and speaker in the tracker also allows you to dial in to listen to sounds around the tracker, and one of two phones can be called from the tracker for two way communication. To top off the rich list of features is a SOS button that sends help information to up to three pre-set phone numbers. A USB cable and mains power adaptor is supplied to recharge the built-in rechargeable Li-ion battery, which will keep the tracker functioning for up to 3 days on standby.

- Real time & history online tracking website
- Free Smartphone App available on iTunes® & Google Play
- SMS location & tracking return
- Geo fence alarm
- External microphone
- Shock & movement alarm
- External SOS/Panic button
- Rechargeable battery

Tracking Website: www.responsegps.com

1 YEAR WARRANTY

SPECIFICATIONS	LA9028
GPS/GSM Module	3G Quad Band
GSM Frequency	850/900/1800/1900MHz
GPS/GSM Antenna	In-built
Location Accuracy	10-20m
Upload Interval	30-999 Seconds
3G Data Usage	0.07KB (Each Upload Interval)
Tracking Current	5V @ 50mA
Standby Current	5V @ 3mA
Recharging Current	5V @ 300mA
Battery	1000mAh Li-ion
Dimensions	61(L) x 42(W) x 11(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Personal Alarm	LA9028	$229.00	$199.00	$179.00

attention educators! can we help?

If you're a parent or teacher and would like some practical resources or help, then your local Jaycar Store or Stockist can assist you with a wide range of learning projects for all ages.

tell a friend

If you have a technical friend or someone who may be just interested in some of the products we stock, have them email their address details to:

CATALOGUE DEPARTMENT - JAYCAR ELECTRONICS:

catalogue@jaycar.com

For next day delivery, or Click and Collect, see page 5

Car Displays

LCD GPS SPEEDOMETER

1 YEAR WARRANTY

More accurate than mechanical speedometers, the GPS speedo works independently of the vehicle so it is not subject to factors such as tyre pressure, circumference, diff ratio, etc. This wireless unit is also safer to use on the road as the big LCD display can be mounted on the windshield and allows you to check speed without having to take your eyes off the road. You can also take this anywhere, use it on your boat, ATV or bike. Supplied with suction mount holder, USB cable and cigarette lighter charger.

- Selectable mph or km/h
- 2" Large digit display
- Rechargeable via USB, 5V/500mA
- Dimensions: 67(W) x 51(H) x 25(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
GPS Speedometer	LA9025	$119.00	$106.90	$94.90

GPS 5.5 INCH HEAD-UP DISPLAY

This is the big brother of heads up displays. It features all the standard features such as current speed in km/h or mp/h, as well as a compass. However, it also provides a tripmeter (distance travelled) and driving time, which can be extremely useful. The large 5.5" display ensures all information is large, clear, and easily read. Additional information is also provided such as current altitude and the number of satellites currently in range for precision. It's a fantastic unit, and a great safety addition to your vehicle to ensure you keep your eyes on the road.

Features:

- Very large 5.5" display
- Easy install, plug and play
- Altimeter and tripmeter functionality

SPECIFICATIONS	LA9034
Power	5-18VDC
Compass Precision	+/- 1°
Speed Range	0-4000km
Satellite Positioning Time	30 Seconds (Cold Start), 1 second (Hot Start)
Weight	115g
Dimensions	125(W) x 75(H) x 15(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
GPS 5.5 Inch Head-Up Display	LA9034	$119.00	$106.90	$94.90

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GPS 3.5 INCH HEAD-UP DISPLAY

Keep an eye on your speed without diverting your eyes from the road! Peripheral vision speedometers made their way into various production cars, but the concept never really took off. A heads-up display turns your windscreen into the screen, by shining onto it from the dashboard. It means you can see, and look through the display, while still looking at the road in front of you. It's fully self-contained, requiring nothing but power from your vehicle. A GPS sensor provides speed calculations, while an internal compass provides current direction. An adjustable over-speed alarm is very useful for motorway driving, displayed in km/h and mp/h. Adjustable brightness to match the conditions too.

Features:

- Internal GPS and compass
- Easy install, plug and play
- Adjustable speed alarm

SPECIFICATIONS	LA9032
Power	8-18VDC @ 40mA
Compass Precision	+/- 1°
Speed Range	0-400km
Satellite Positioning Time	30 Seconds (Cold Start), 1 second (Hot Start)
Weight	40g
Dimensions	90(W) x 54(H) x 12(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
GPS 3.5 Inch Head-Up Display	LA9032	$79.90	$71.90	$63.90

GPS SPEEDOMETER HEAD-UP DISPLAY WITH OBDII DATA

NEW

At the touch of the built-in scroll button, you can switch between GPS and OBD II modes. In GPS mode, the display will show your speed, battery voltage, and the number of connected satellites. Switch over to OBDII mode to display speed, engine RPM, water temperature, battery voltage, and distance travevled. The main unit has a glare hood and features auto dimming for night time operation. While the OBD II mode is limited for use in 12V vehicles only, it will happily operate in GPS mode in 24V vehicles.

- OBD II or GPS Operation
- Auto Brightness Adjustment

SPECIFICATIONS	LA9036
Display	
Input Voltage	11-18VDC
Power Consumption	200mA
Standby Power Consumption	<=20mA
Dimensions	90(W) x 52(H) x 26(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
OBDII Head-Up Display	LA9036	$56.90	$50.90	$44.90

Engine Management

SPEEDO CORRECTOR MODULE FOR CARS

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.

SPECIFICATIONS	AA0376
Power	12VDC
Dimensions	63(L) x 46(W) x 25(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AA0376	$55.90	$50.30	$44.70

VERSATILE AUTOMOTIVE LED DISPLAY MODULE FOR CARS

This versatile module will allow you to monitor the battery voltage, the airflow meter, or oxygen sensor in your car. It features a 10 LED indicator that illuminates in response to the measured voltage so you can see if your O2 sensor is causing your car to run too rich or too lean. Preset 9-12V, 0-5V or 0-1V ranges, complete with fast response time, high input impedance and auto dimming for night time driving.

SPECIFICATIONS	AA0375
Power	12VDC
Dimensions	81(L) x 52(W) x 21(H)mm

Cat.	Qty 1+
AA0375	$5.60

FUEL MIXTURE DISPLAY MODULE FOR CARS

This very simple module will allow you to monitor the fuel mixtures being run by your car. This type of sensor is also known as an E.G.O. (exhaust, gas, oxygen) monitor. You can use it as a tuning tool, to help in vehicle modification or simply to see the behaviour of the engine control module. Indication is via 10 LEDs to show mixtures rich, lean and normal. The circuit connects to the EGO sensor mounted in the exhaust manifold & the cars battery.

SPECIFICATIONS	AA0374
Power	12VDC
Dimensions	81(L) x 51(W) x 22(H)mm

Cat.	Qty 1+
AA0374	$5.60

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Information Technology, Wired, over Mains or Wireless

Wireless networking is so ubiquitous these days that we forget that you can still network via Cat5/6 or even over the mains.

The Jaycar 2019 catalogue lineup displays an enormous range of wireless technology, including Wi-Fi, 2.4GHz, 5.8GHz, and Mobile, VHF and UHF, etc.

Our range of wired technology affords the ultimate noise immunity, of course. Among these pages you will find every conceivable cable/adaptor solution to your needs.

Trust Jaycar to have the widest range of computer accessories and networking products for your needs

Whole-Mesh Wi-Fi Systems

AC1200 WI-FI MESH NETWORK AC1200 BASE AND SATELLITE KIT

Provide seamless Wi-Fi in your entire home with this Mesh Wi-Fi system. The kit is provided with 1 x Mesh Router and 1 x Satellite module for a coverage area up to 260 square metres. Additional Satellite modules are sold separately for larger homes or for homes with a structure that reduces the transmission range.

- Complies with IEEE 802.11ac/a/n/g/b standards
- Simultaneous 5G 867Mbps and 2.4G 300Mbps connections for 1167Mbps of total available bandwidth
- 4 x Internal antennas provide omnidirectional stable signal and superior wireless coverage
- Supports by PPPoE, Dynamic IP, static IP and WISP access to the Internet

NEW

SPECIFICATIONS	YN8560
Frequency Range:	2.4GHz & 5GHz
Transmit Power:	20dBm Max.
Sensitivity:	802.11b: -93dBm /802.11g: -73dBm /802.11a: -76dBm
Speed:	Band 1: 300Mbps @ 2.4GHz Band 2: 867Mbps @ 5GHz
Wireless Security:	WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
Antennas:	4x3dBi Omni Directional Internal
Coverage Area:	260m²

DUAL BAND

1 YEAR WARRANTY

WAVLINK®

	Cat.	Qty 1+	Qty 4+	Qty 10+
Base & Satellite Kit	YN8560	$289.00	$259.00	$229.00
Extra Satellite Module	YN8562	$149.00	$133.90	$118.90

AC2200 LYRA MESH WI-FI SYSTEM

ASUS®

The ASUS AC2200 Tri-Band Whole-Home Mesh Wi-Fi System (for large homes), with AiProtection network security powered by Trend Micro, ASUS Lyra App and Advanced Parental Control Time to Banish Wi-Fi dead spots and say goodbye to unreliable connections. ASUS Lyra delivers superfast, ultra-reliable Wi-Fi to every corner of your home. Whether you're using a smartphone, PC, game console or a smart-home gadget, Lyra ensures that every device enjoys a smooth, seamless and secure connection anywhere in the house at all the times.

- Smart Antennas – Automatic optimization of hub connections ensures the fastest speeds, all the time
- Commercial-grade Security – Protect all devices on your home network with ASUS AiProtection

DUAL BAND

3 YEAR WARRANTY

SPECIFICATIONS	YN8432
Operating Modes	Repeater, Access Point, Router
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz-1 & 5GHz-2
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	WPA2-PSK
Dimensions	150(Dia.) x 50(H)mm

AiProtection

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Download on the App Store

TREND MICRO

	Cat.	Qty 1+
	YN8432	$569.00

Range Extenders

N300 WI-FI RANGE EXTENDER

This intelligent Wi-Fi device can handle it all. Use it as a repeater to extend the range of your existing Wi-Fi network, provides a Wi-Fi access point for your wired network, or even acts as a router for your existing modem. It connects straight into your mains power outlet for no fuss installation, and configuration is quick and painless (with ultra-simple WPS connectivity supported too). Suitable for 802.11b/g/n standards up to 300Mbps, supporting modern standards for security too. It also features integrated status LEDs for signal strength, as well as quick reference of network status.

SPECIFICATIONS	YN8370
Interface	2 x 10/100 LAN Port
Operating Modes	Repeater, Access Point, Router
Power	240VAC
Antennas	2 x 2dBi Internal
Wireless Standards	IEEE 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128/152-bit WEP/WPA/ WPA2/WPA-PSK/WPA2-PSK
Dimensions	76(H) x 53(W) x 40(D)mm

1 YEAR WARRANTY

WAVLINK®

	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN8370	$69.90	$62.90	$55.90

AC1200 DUAL BAND WI-FI RANGE EXTENDER

Quickly and simply eliminate dead-spots in your Wi-Fi network, or provide an access point on your existing wired network. It plugs straight into an available mains power point for compact, set and forget use. Dual band operation on 2.4GHz and 5GHz networks for maximum device compatibility. Simple setup and configuration makes it an easy task to tackle at home, but it's still powerful enough for the IT department at the office too.

SPECIFICATIONS	YN8372
Interface	2 x 10/100 LAN Ports
Operating Modes	Repeater, Access Point, Router
Power	240VAC
Antennas	4 x 2dBi External
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128/152-bit WEP/WPA/ WPA2/WPA-PSK/WPA2-PSK
Dimensions	72(H) x 50(W) x 30(D)mm (Excluding Antennas)

DUAL BAND

1 YEAR WARRANTY

WAVLINK®

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC1200 Dual Band	YN8372	$119.00	$106.90	$94.90

AC600 OUTDOOR WI-FI EXTENDER WITH POE

The perfect Wi-Fi companion for your entertaining area, a carpark, or any other outdoor scenario. Provide it a single PoE ethernet connection and it provides you with dual-band Wi-Fi access. Supporting 2.4G and 5G bands, for up to 433Mbps speeds. It acts as a Wi-Fi repeater, access point, or router, and two large antennas (one for each band) help further maximise range. Bundled into a weatherproof outdoor case, it's durable too.

- Single PoE connection
- Dual band Wi-Fi
- 155Mbps @ 2.4GHz / 433Mbps @ 5GHz Max Speed
- Weatherproof
- Weight: 181g
- Dimensions: 55(W) x 430(H) x 55(D)mm (Including Antennas)

WAVLINK®

DUAL BAND

1 YEAR WARRANTY

SPECIFICATIONS	YN8349
Interface	1 x 10/100 LAN Port
Operating Modes	Repeater, Access Point, Router
Power	Single POE
Antennas	2 x 7dBi External
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 433Mbps
Wireless Security	64/128/152-bit WEP/WPA/ WPA2/WPA-PSK/WPA2-PSK
Dimensions	55(W) x 430(H) x 55(D)mm (Including Antennas)

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN8349	$139.00	$124.90	$110.90

AC1900 WI-FI RANGE EXTENDER

The ASUS RP-AC68U is an AC1900-class dual-band repeater, with a 3-transmit, 4- receive (3x4) internal antenna array that delivers Wi-Fi speeds up to 1300 Mbps on the 5GHz frequency band and up to 600 Mbps on the 2.4GHz band, for a combined total of up to 1900 Mbps.

Five gigabit ports let you convert any wired network device, such as a game console or smart TV, to work wirelessly. Smart status LEDs give you all the information you need to know, at a glance.

- Extend your existing 802.11ac dual-band Wi-Fi network with speeds up to 1900 Mbps.
- USB 3.0 port for AiCloud support and fast NAS performance.
- 5 Gigabit ethernet ports to convert any wired network devices to wireless operation.
- Roaming Assist helps you to get a stable connection everywhere in the home or office.

ASUS®

DUAL BAND

3 YEAR WARRANTY

SPECIFICATIONS	YN8428
Operating Modes	Repeater, Access Point, Router, Media Bridge
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 1900Mbps, 11n: Up to 600Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	WPA-PSK/WPA2-PSK/WPA-Enterprise/ WPA2-Enterprise/ WPS support
Dimensions	106(W) x 106(D) x 178(H)mm

	Cat.	Qty 1+
	YN8428	$289.00

tech talk What Do the N & AC Specs Mean?

	N150	N300	AC450	AC600	AC750	AC1200	AC1300	AC1750	AC1900	AC2200
Wi-Fi Standards	802.11n/g/b		802.11/ac/a/n/g/b							
Wi-Fi Speed (Mbps)	Up to 150	Up to 300	Up to 433	Up to 150 + 433	Up to 300 + 433	Up to 300 + 867	Up to 400 + 867	Up to 450 + 1300	Up to 600 + 1300	Up to 400 + 867 + 867
Frequency (GHz)	2.4		5	2.4 & 5 (Dual)						2.4 & 5 & 5 (Tri)

For next day delivery, or Click and Collect, see page 5

Modem Routers

AC1200 VDSL/ADSL MODEM ROUTER

The Archer VR400 unlocks the full potential of your internet connection by providing combined dual band Wi-Fi speeds of up to 1.2Gbps, including 300Mbps on the 2.4GHz band and 867Mbps on the 5GHz band, eliminating lag and buffering from your online experience. Two dedicated Wi-Fi networks support more devices and reduce wireless interference to create stable connections.

- Speedy Wi-Fi – Superb wireless experience with 300Mbps (2.4GHz) + 867Mbps (5GHz) dual-band Wi-Fi connections
- Superior Range – Three fixed antennas provide stable wireless connections and optimal coverage
- Versatile Connectivity – Fully compatible with the VDSL2/ADSL2+/ADSL2/ADSL standards
- Beamforming Technology – Improves wireless range and performance at 5GHz band
- USB Port – Supports storage and print service sharing, FTP and media servers as well as 3G/4G dongle
- Tether App – TP-LINK Tether provides the easiest way to access and manage the router on your iOS and Android devices

3 YEAR WARRANTY

tp-link DUAL BAND

SPECIFICATIONS	YN8440
Interface	3 10/100Mbps RJ45 LAN Ports 1 10/100/1000 RJ45 LAN/WAN Ports 1 RJ11 Port, 1 USB 2.0 Port
Antennas	3 fixed external antennas
Wireless Standards	IEEE 802.11a/n/ac 5GHz, IEEE 802.11b/g/n 2.4GHz
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA-PSK2 encryptions, Wireless MAC Filtering
Dimensions	243×160.6×32.5mm

	Cat.	Qty 1+
	YN8440	$199.00

N300 WIRELESS BROADBAND ROUTER

Sharing your internet connection and networking your computers is made easy. It provides powerful 300mbps wireless connectivity, as well as four wired ethernet ports. Dual antennas help boost signal strength and reduce dead-spots, while WPS provides hassle-free connection. The WAN port provides PPPoE, Dynamic and Static IP broadband support functions. It's also NBN compatible to provide smooth streaming of your favourite content. Easy to setup and configure, but still provides some advanced firewall configurations too, this is a great compact unit for the home or small office.

2.4GHz

1 YEAR WARRANTY

WAVLINK®

SPECIFICATIONS	YN8390
Interface	4 x 10/100Mbps LAN Ports, 1 x 10/100Mbps WAN Port
Power	5VDC (Mains Adaptor included)
Antennas	2 x 5dBi Omni Directional
Wireless Standards	IEEE 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128/152-bit WEP/WPA/WPA2/WPA-PSK/WPA2-PSK
Dimensions	145(W) x 24(H) x 92(D)mm (Excluding Antennas)

	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN8390	$56.90	$50.90	$44.90

AC1200 SMART WI-FI ROUTER

Featuring the latest 802.11AC wireless standards for solid streaming, fast gaming, and interrupt-free networking. A stunning aesthetic design meets core functionality with the use of four 5dBi high performance antennas (two for each band), for better connectivity and greater range. It also provides a USB port for centralised storage and network sharing of data. Management is simplified with the use of a Smart App, so you can manage your network anytime. Dual 2.4G and 5G frequencies to support the latest high speed devices without forgetting about legacy devices either. Two 10/100 LAN ports are also provided for wired connectivity or expansion to another network switch. It provides a WAN interface with PPPoE and most other broadband protocols, so it's suitable for NBN connections too.

DUAL BAND

1 YEAR WARRANTY

WAVLINK®

SPECIFICATIONS	YN8392
Interface	4 x 10/100Mbps LAN Ports, 1 x 10/100Mbps WAN Port, 1 x USB2.0 Storage Port
Power	5VDC @ 2A (Mains adaptor included)
Antennas	2 x Dual 5dBi Omni Directional (2 per frequency band)
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128-bit WEP/WPA/WPA2/WPA-PSK/WPA2-PSK
Dimensions	195(W) x 31(H) x 169(D)mm (Excluding Antennas)

		Cat.	Qty 1+	Qty 4+	Qty 10+
AC1200	Dual Band	YN8392	$119.00	$106.90	$94.90

Check our website for more information on the latest Wi-Fi standards and speeds: www.jaycar.co.nz/buyingguides

Adam Denman likes to

think. possible.

"My favourite current technology is magnetic rail propulsion/locomotion. My dream is to one day see a magnetic rail elevator that connects from Earth to a space station in geosynchronous orbit. Every person on the planet will have the opportunity to reach the stars that day and every day onward. Excelsior!"

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

monthly specials & promotions

Lookout for our monthly promotions in store and online.

Wireless Network Adaptors

N150 NANO USB 2.0 WIRELESS NETWORK ADAPTOR

They don't get much smaller than this. Excluding the USB plug, this wireless-N network adaptor measures in at an astounding 5mm wide. It's the ultimate in discrete networking and perfect for the PC, laptop, or netbook.

- Compatible with 802.11n/g/b networks
- Transfer rate up to 150Mbps
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0-10.8, Linux
- Dimensions: 15(L) x 5(W) x 17(D)mm

WAVLINK® 1 YEAR WARRANTY

SPECIFICATIONS	YN8309
Wireless Standards	IIEEE 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	11n: Up to 150Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise , WPA2-Enterprise
Dimensions	15(L) x 5(W) x 17(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
N150	YN8309	$24.90	$22.40	$19.90

N300 MINI USB 2.0 WIRELESS NETWORK ADAPTOR

Add 802.11n wireless capability to your computer. Supports transfer speeds up to 300Mbps and is part of the 802.11n standard. A secure, sleek and convenient networking upgrade for the home or office.

- Security: 64/128bit WEP encryption
- WPA/WPA2 and WPA-PSK/WPA2-PSK encryption
- Wi-Fi protected setup (WPS)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0-10.8, Linux
- Dimensions: 58(L) x 26(W) x 9(H)mm

WAVLINK® 1 YEAR WARRANTY

SPECIFICATIONS	YN8307
Wireless Standards	IIEEE 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise , WPA2-Enterprise
Dimensions	58(L) x 26(W) x 9(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN8307	$29.90	$26.90	$23.90

AC600 USB DUAL BAND WIRELESS NETWORK ADAPTOR

This is an ultra compact Wi-Fi dongle, ideal for notebook computers being moved around and where a larger dongle may be easily knocked and damaged. While many devices now have built-in Wi-Fi, there are many of us with hardware not Wi-Fi equipped, or specialised equipment which doesn't include it either. Dual band connection offers fast and stable access to just about any Wi-Fi signal, and is compatible with Windows and Mac systems.

- Dual band 2.4GHz and 5GHz
- Up to 433Mbps data rate

WAVLINK® DUAL BAND 1 YEAR WARRANTY

SPECIFICATIONS	YN8334
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 433Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise , WPA2-Enterprise
Dimensions	15(W) x 7(H) x 27(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN8334	$48.90	$43.90	$38.90

find out more in store

Our staff offer friendly and helpful service. We're here to help.

AC1300 USB DUAL BAND WIRELESS NETWORK ADAPTOR

Similar to the YN8334 AC600 dongle opposite but provides a greater range and speed. A powerful internal antenna and dual band connection offers fast and stable access to just about any Wi-Fi signal, and is compatible with Windows and Mac systems.

- Dual band 2.4GHz and 5GHz
- Up to 1300Mbps data rate

DUAL BAND 1 YEAR WARRANTY

WAVLINK®

SPECIFICATIONS	YN8336
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 400Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise , WPA2-Enterprise
Dimensions	28(W) x 98(H) x 10(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC1300	YN8336	$89.90	$80.90	$71.90

AC1900 USB DUAL BAND WIRELESS NETWORK ADAPTOR

The ASUS USB-AC68 is a dual-band USB Wi-Fi adapter that instantly upgrades your desktop or laptop to the newest 802.11ac technology with Wi-Fi speeds up to 1300 Mbps (5GHz) and 600 Mbps (2.4GHz).

Its 3x4 MIMO antenna design with ASUS AiRadar Beamforming optimize the Wi-Fi reception, and the 3-position antennas and the cradle make it convenient to adjust for the best performance according to your usage- on desktop, on laptop, or on the go!

The USB 3.0 interface eliminates the potential bottleneck for your Wi-Fi and ensures the best performance you can get.

- Instantly upgrade your PC or laptop to dual-band AC1900 Wi-Fi!
- Powerful 3x4 MIMO design with dual 3-position external antennas and ASUS AiRadar beamforming for outstanding Wi-Fi reception
- USB 3.0 interface for up to 10X-faster data-transfer speeds
- Includes cradle for flexible positioning to achieve the very best performance

ASUS® DUAL BAND 3 YEAR WARRANTY

SPECIFICATIONS	YN8436
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 1300Mbps, 11n: Up to 400Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise , WPA2-Enterprise
Dimensions	115(H) x 30 (W) x 17(D)mm

	Cat.	Qty 1+
ASUS USB-AC68	YN8436	$159.00

James Du likes to

think. possible.

"I currently work with Universal Robots Cobots and believe within the next 5-10 years, these robots will help manufacturing in Australia to become viable again and enable smaller businesses to thrive. The Cobot technology will enable robots to become more accessible and therefore will quickly become apart of our lives."

For next day delivery, or Click and Collect, see page 5

Ethernet Switches

8 PORT 10/100 ETHERNET SWITCH

NEW

Provides 8 additional ports to an internet router, firewall, or a standalone network. All ports support 10/100Mbps and feature auto-MDI/MDIX, which means it will work fine with both straight-through and crossover network cables. Plug-and-play installation, and low power consumption from a compact unit.

- Auto-MDI/MDIX port
- MAC address auto-learning and auto-aging
- Half and Full Duplex

SPECIFICATIONS	YN8388
MAC Address Table	1K entries per device
Protocol	CSMA/CD
Forwarding Performance	1.2Mbps
Backplane Bandwidth	1.6Gbps
Transmission Method	Store-and-Forward

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100Mbps	YN8388	$33.90	$29.90	$26.90

5 PORT GIGABIT ETHERNET SWITCH

NEW

Level up your wired devices to faster gigabit speed. Provides 5 additional ports to an internet router, firewall, or a standalone network. All ports support 1 Gigabit (1000Mbps), and are backwards compatible with 10/100Mbps. It also features auto-MDI/MDIX, which means it will work fine with both straight-through and crossover network cables. Plug-and-play installation, and low power consumption from a compact unit.

- 5 x Gigabit ethernet ports
- Auto-MDI/MDIX port
- MAC address auto-learning and auto-aging
- Half and Full Duplex

SPECIFICATIONS	YN8384
MAC Address Table	2K entries per device
Protocol	CSMA/CD
Forwarding performance	7.5Mbps
Backplane Bandwidth	10Gbps
Transmission Method	Store-and-Forward

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100/1000Mbps ethernet	YN8384	$45.90	$40.90	$35.90

8 PORT GIGABIT ETHERNET SWITCH

NEW

Level up your wired devices to faster gigabit speed. Provides 8 additional ports to an internet router, firewall, or a standalone network. All ports support 1 Gigabit (1000Mbps), and are backwards compatible with 10/100Mbps. It also features auto-MDI/MDIX, which means it will work fine with both straight-through and crossover network cables. Plug-and-play installation, and low power consumption from a compact unit.

- 8 x Gigabit ethernet ports
- Auto-MDI/MDIX port
- MAC address auto-learning and auto-aging
- Half and Full Duplex

SPECIFICATIONS	YN8386
MAC Address Table	8K entries per device
Protocol	CSMA/CD
Forwarding performance	12Mbps
Backplane Bandwidth	16Gbps
Transmission Method	Store-and-Forward

1 YEAR WARRANTY

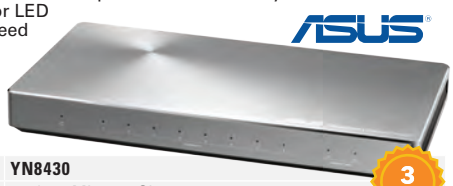
	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100/1000Mbps ethernet	YN8386	$69.90	$62.90	$55.90

10 PORT ETHERNET SWITCH WITH TWO 10GBPS PORTS

Each of the two 10G ports delivers up to 10Gbps speeds via standard RJ-45 cables. This gives your office or studio network the bandwidth to cope easily with even the most data-intensive tasks, such as backing up to a NAS or transferring huge files.

There are also 8 Gigabit ethernet ports for the ultimate versatility.

Enjoy true plug-and-play convenience, with absolutely no setup required! Each port automatically configures itself depending on the type of device you connect, and the 10G ports include a handy three-color signal quality indicator LED that tells you what speed the cable supports.



SPECIFICATIONS	YN8430
Data Rate	100/1000Mbps, 10Gbps
Interfaces	8 x 100/1000Mbps, 2 x 10GBASE-T 10Gbps ports
Input Power	12VDC @ 1.5A (Mains adaptor included)
Standards	IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3an 10GBASE-T
Dimensions	240(L) x 125(W) x 27(H)mm

3 YEAR WARRANTY

	Cat.	Qty 1+
ASUS XG-U2008	YN8430	$439.00

PoE Switches

5 PORT 10/100 POE ETHERNET SWITCH

Reduces the need for mains power at each IP camera location, for instance, powering them from a central supply. Suitable for use up to 100m, it provides up to 30W per PoE port.

SPECIFICATIONS	YN8074
Ports	1 x 10/100 RJ45 4 x 10/100 RJ45 High Power PoE
PoE Port Power	30W (per port)
Max Combined PoE Power	65W
Backplane Bandwidth	1.6Gbps (non-blocking)
Max PoE Distance	100m
Network Protocols And Standards	IEEE 802.3i 10BASET, IEEE 802.3u 100BASETX IEEE 802.3x Flow Control, IEEE 802.3af DTE Power via MDI IEEE 802.3at
Power Input	100-240VAC @ 50/60Hz
Dimensions	118(W) x 85(D) x 27(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100Mbps	YN8074	$139.00	$124.90	$117.90

10 PORT GIGABIT POE ETHERNET SWITCH

This is a powerful gigabit switch with 8 x PoE-enabled and 2 x standard gigabit ports. It can deliver up to 130W of power (max 30W to a single port), which is loads of power for just about any PoE-enabled device you may have. Ultra-fast gigabit network also enables fast data transfer, critical for high resolution IP cameras and data-intensive systems, and is also very useful for providing PoE to access points and switches which are also distributing the connection. Automatic PoE detection, fully compatible with non-PoE devices. Includes mains power adaptor and mounting bracket.

SPECIFICATIONS	YN8049
Ports:	8 x PoE (RJ45) 2 x Uplink (RJ45)
Power Output:	30W Per Port (Max) 15.4W Per Port (Across 8 Ports) 130W (Total)
PoE Standards:	IEEE 802.3at, IEEE 802.3af
Network Speed:	10/100/1000Mbps
Transmission Distance:	Up to 100m
Power Supply:	52VDC, 2.5A
Dimensions:	189(W) x 102(D) x 28(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
10/100/1000Mbps ethernet	YN8049	$259.00	$229.00	$219.00

Ethernet Over Power

N300 WI-FI ETHERNET-OVER-POWER KIT

This brilliant device makes Wi-Fi range extension literally plug and play. It uses your existing mains wiring to extend (or create) your wireless network. Simply plug the main unit into mains power and an ethernet cable from your router. Place the wireless unit in another part of the home or office, and you'll have a new wireless network in seconds! It will work using up to about 300m of power cable, which is more than enough to cover most homes, or a small office. Saves time and money avoiding new data cables, and provides high quality local Wi-Fi signal. Quality N300 Wi-Fi for up to 300Mbps data speeds.

1 YEAR WARRANTY

Wi-Fi

SPECIFICATIONS	YN8357
Interface	1 x 10/100 LAN Port
Power	240VAC
Standards	Cable: IEEE802.3, IEEE802.3u,IEEE802.3ab, Wireless: IEEE 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	Mains: 500Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Security	Cable: 128-bit AES, Wi-Fi: WEP, WPA/WPA2, WPA-PSK/ WPA2-PSK
Range	Mains Range 300m
Dimensions	75(H) x 66(D) x 59(W)mm

WAVLINK®

	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN8357	$169.00	$151.90	$134.90

AV1000 GIGABIT ETHERNET-OVER-POWER KIT

The YN8442 Kit is the easy, instant way to extend your wired network to hard-to-reach areas of your home. It uses 1000Mbps HomePlug AV2 powerline technology to extend fast wired connections anywhere in your home via existing electrical household wiring. Simply plug it in and enjoy fast, stable connections for all your devices – with no cable mess.

- HomePlug AV2 standard compliant, high-speed data transfer rates of up to 1000Mbps, supports all your online needs
- Gigabit port provides secure wired networks for desktops, smart TVs or games consoles
- Plug and play, no configuration required
- Patented Power-Saving Mode automatically reduces power consumption by up to 85%

tp-link DUAL BAND 3 YEAR WARRANTY

SPECIFICATIONS	YN8442
Interface	1 x 10/100/1000 LAN Port
Power	240VAC
Standards	IEEE802.3, IEEE802.3u,IEEE802.3ab, IEEE 1901
Signal Rate	1000Mbps
Security	128-bit AES
Range	Mains Range 300m
Dimensions	126(H) x70(W) x42(D)mm

	Cat.	Qty 1+
TPLINK AV1000 (TL-PA7010P KIT)	YN8442	$159.00

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

ETHERNET-OVER-POWER KIT

There are many instances where running a dedicated ethernet cable is not practical, desirable, or even possible. This well engineered unit allows you to extend your ethernet connection over already-installed mains power connections. Simply connect, pair, and go! Ethernet speeds up to 500Mbps allow HD streaming, fast file transfers, and more. Ideal for SmartTVs, old computers, and just about any ethernet requirements.

1 YEAR WARRANTY

WAVLINK®

SPECIFICATIONS	YN8355
Interface	1 x 10/100 LAN Port
Power	240VAC
Standards	IEEE802.3, IEEE802.3u,IEEE802.3ab
Signal Rate	500Mbps
Security	128-bit AES
Range	Mains Range 300m
Dimensions	58(W) x 73(H) x 90(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8355	$139.00	$124.90	$110.90

AC1200 WI-FI ETHERNET-OVER-POWER KIT

Your PL-AC56 Kit is the easy, instant way to extend your wired and Wi-Fi networks to hard-to-reach areas of your home.

This kit uses 1200Mbps HomePlug® AV2 powerline technology integrated with 1200Mbps AC1200 Wi-Fi to extend fast wired and wireless networking anywhere in your home via existing electrical wiring.

Simply plug it in and enjoy fast, stable connections for all your devices – with no cable mess!

- Powerful 1200Mbps HomePlug® AV2 powerline connectivity with 1200Mbps dual-band AC1200 Wi-Fi MIMO range extender.
- Flexible connectivity for multiple devices via powerline, three ethernet LAN ports and Wi-Fi.
- Plug-and-play setup with easy Wi-Fi network cloning.
- Encrypted pairing blocks unauthorized devices for protected security.
- Integrated power socket ensures the power outlet is not wasted.

ASUS® DUAL BAND 3 YEAR WARRANTY

SPECIFICATIONS	YN8434
Interface	3 x 10/100/1000 Ports, 1 x 10/100/1000 port
Power	240VAC
Standards	Cable: IEEE802.3, IEEE802.3u,IEEE802.3ab, IEEE 1901, Wireless: IEEE 802.11ac/n/g/b
Signal Rate	2.4GHz & 5GHz
Signal Rate	Mains: 1200Mbps, 11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Security	Cable: 128-bit AES, Wi-Fi: WEP, WPA/WPA2, WPA-PSK/ WPA2-PSK
Range	Mains Range 300m
Dimensions	152(H) x 80(W) x 44(D)mm

	Cat.	Qty 1+
ASUS AV-2 (PL-AC56 KIT)	YN8434	$319.00

For next day delivery, or Click and Collect, see page 5

Networking Accessories

USB 2.0 NETWORK ADAPTOR WITH 3 PORT HUB

For ultrabooks, Macbook Air® and Tablets where USB ports are sparse or RJ-45 network ports are nonexistent. Simply connect a network cable to this device and you have a 10/100Mbps network adaptor. It also serves as a 3 port hub to connect peripherals such as a mouse, webcam, and keyboard. USB 2.0 and USB Type-C versions available to suit your requirements.

- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 96(L) x 24(W) x 16(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	YN8407	$28.90	$25.90	$22.90
USB 3.0 Type-C	YN8409	$45.90	$40.90	$35.90

USB 3.0 ETHERNET CONVERTER

NEW

Modern Apple® MacBook® and Ultrabooks™ aren't able to connect to the internet using a LAN cable, as there is no LAN port provided. This converter provides a solution by converting a USB port to a ethernet port. With the combination of USB 3.0 and Gigabit ethernet, it maximises the data transfer speed. Plug and play installation, backward compatible with USB 2.0, and supports suspend mode and remote wake up via links and magic packs. It will also handle jumbo packets up to 9kB, and the MDIX feature automatically detects straight or cross network cables.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8418	$45.90	$40.90	$35.90

Bluetooth Dongle

USB 2.0 BLUETOOTH® V4.0 CLASS 2 DONGLE

Connect a wide variety of popular Bluetooth® devices to your PC, including modern Bluetooth® Low Energy devices.

- Bluetooth® V4.0 Class 2 (also Bluetooth® 2.1 + EDR)
- Transfer rate: 3Mbps
- Supports BLE
- RoHS compliant
- Plug & Play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000

p.457 bluetooth® transmitter & receiver

Bluetooth

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Class 2 Bluetooth®	XC4956	$29.90	$26.90	$23.90

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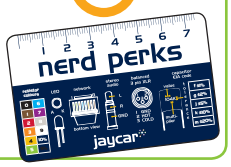

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Give a Jaycar Gift Card and let them choose!

Power Over Ethernet

POE POWER SPLITTERS

These devices split the PoE into a regular ethernet plug and power plug. Giving you 12V (YN8414) to power small network switches, IP cameras etc; or 5V (YN8416) to power devices like Raspberry Pi or Arduino®.

1 YEAR WARRANTY

SPECIFICATIONS	YN8414	YN8416
PoE Voltage Input	44-57V	
Voltage Output	12VDC @ 1.25A Max	5VDC @ 2.4A Max
Connectors	1x RJ45 PoE socket 1x RJ45 ethernet plug 1x DC plug	1 x RJ45 PoE Socket 1 x RJ45 Ethernet Plug 1 x Micro USB Plug
PoE Standard	IEEE 802.3af	
Data Rate	10/100Mbps	
Dimensions	35(W) x 50(D) x 30(H)mm	88(L) x 30(W) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
12V DC Plug	YN8414	$22.90	$20.90	$19.90
5V Micro USB Plug	YN8416	$33.90	$29.90	$26.90

GIGABIT POE INJECTOR

Most conventional ethernet switches do not natively support PoE. This device adds the power inline to a single network cable, working up to 100m, so you don't need mains power down the line at the device. It supports up to gigabit network throughput for ultra-fast connectivity, and is PoE IEEE 802.3at compliant.

SPECIFICATIONS	YN8040
Input	1 x RJ45, 1 x AC Power Input
Output	1 x RJ45
Network	Gigabit up to 100m
PoE Output Power	52V @ 30W max
PoE Standard	IEEE 802.3at
Input Voltage	100-240VAC
Power Demand	35W max
PoE Power Supply End-Span	1/2,3/6 spare line pair (default); mid-span: 4/5, 7/8 data line pair(can be customised)
Dimensions	118(W) x 60(D) x 38(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8040	$69.90	$62.90	$58.90

POWER-OVER-ETHERNET (POE) PASSIVE KIT

Simply connect a plugpack of the required voltage via the 2.1mm DC connector, then tap it where you need it at the other end.

- Input/Output Voltage: 5/12/24/48VDC
- Output Current: 1.5A
- PoE Output Power: 15.4W
- Transmission Distance: Up to 100m
- Dimensions: 48(L) x 20(W) x 23(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8410	$18.90	$17.00	$15.10

Bradley Chislett likes to

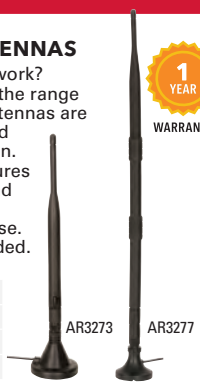
think. possible.

"I believe that 3D Printable Human Tissue is a grand new technology, as I am someone with many scars I believe the medical benefits of 3D Printable Tissue will evolve over the next couple of years into something that is a vaible option for people with medical or cosmetic issues."

Antennas and Adaptors

2.4GHZ WIRELESS NETWORKING ANTENNAS

Want to get a longer range in your wireless network? Here's a quick and inexpensive way to improve the range at either your base station or terminal. These antennas are specifically designed for 2.4GHz applications and 802.11 wireless networking is an ideal application. This rubber antenna is a dipole design and features a detachable base. Supplied with a 1.5 metre lead terminated to a reverse SMA connector. Both models supplied with a detachable magnetic base. See our adaptors section for conversions if needed.



1 YEAR WARRANTY

SPECIFICATIONS	BOTH MODELS
Frequency Range	2.4GHz
Impedance	50 ohm
Polarisation	Vertical

Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5dBi	195mm	AR3273	$24.90	$22.40	$19.90
11dBi	380mm	AR3277	$45.90	$40.90	$35.90

5/5.8GHZ WIRELESS NETWORKING ANTENNAS

Improve your wireless signal of your existing wireless AC (802.11ac) modem/ router by attaching these 5GHz networking antennas. Supplied with a 1.5m lead terminated to a reverse SMA connector and a detachable magnetic base.

1 YEAR WARRANTY

SPECIFICATIONS	AR3286	AR3288
Gain	5dBi	9dBi
Directionality	Omni directional	
Frequency Range	5.5 - 5.85GHz	
Dimensions	220mm long	390mm long

Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5dBi	220mm	AR3286	$28.90	$25.90	$22.90
9dBi	390mm	AR3288	$45.90	$40.90	$35.90

4G 5DBI MAGNETIC MOUNT ANTENNA

This free-standing magnetic whip antenna for the 4G network is quick and easy to set up for use at home or on your vehicle. 5dBi gain will deliver a good signal at times when there would otherwise be no signal at all! Suitable for LTE, AMPS, GSM, PCS, UMTS and Wi-Fi. Includes a 2 metre RG58 lead with FME connector.

NEW

1 YEAR WARRANTY

Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5dBi	337mm	AR3340	$56.90	$50.90	$44.90

4G 7DBI 700-2700MHZ ANTENNA WITH FME CONNECTION

Designed to help boost 4G data signals for a reliable flow of data. Features a strong magnetic base so you can fix it to the roof of your vehicle or any other steel surface. Designed to support 700~960, 1710~2170, and 2500~2700MHz frequency ranges. The 3m cable is terminated with an FME connector.

NEW

1 YEAR WARRANTY

Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
7dBi	950mm	AR3344	$56.90	$50.90	$44.90

4G 7DBI SPRING MOUNT ANTENNA

Supplied with a 5 metre RG58 lead with FME connector and packs 7dBi gain to get your signal out there!

- 1/2 wavelength design
- 100W input maximum

NEW

1 YEAR WARRANTY

Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
7dBi	740mm	AR3342	$149.00	$133.90	$118.90

SMA ADAPTORS & LEADS

Boost the reception on your 3G/4G USB modem or mobile phone - great if you live in or travel to rural areas. The adaptors plug into the antenna socket on your USB modem to extend the signal range. For devices without an SMA connection use the AR3330 induction adaptor.

1 YEAR WARRANTY

Type	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Induction 3G Plug	510mm	AR3330	$22.90	$20.30	$17.90
Huawei E160/618 Plug	500mm	AR3332	$22.90	$20.30	$17.90
Sierra TS9 Plug	500mm	AR3334	$22.90	$20.30	$17.90
Telstra 4G USB Modem	490mm	AR3336	$22.90	$20.30	$17.90
Low Loss SMA Extension	5m	WC7824	$46.90	$42.40	$37.40

4G 3DBI GLASS MOUNT ANTENNA

This glass mount patch antenna for the 4G network will improve your mobile reception while at home or on the go! It mounts on the inside of your house or car window via the adhesive pad so there is no messy drilling or installlation required. Includes a 3 metre lead with FME connector.

NEW

SPECIFICATIONS	AR3338
Gain	3dBi
Wavelength	1/4 Wave
Max Power	10W

1 YEAR WARRANTY

Gain	Lead Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3dBi	3m	AR3338	$45.90	$40.90	$35.90

Wired Network Accessories

CAT5 UTP SPLITTER

Cat5 splitters enable two different devices to share the same Cat5 cable. They are usually used in pairs, one at each outlet. Please note: you can't use this device to run two computers from one network port: you'll need a network switch for that. This product is unsuitable for gigabit networks.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YT6090	$18.90	$16.90	$14.90

BNC TERMINATOR PLUG

To terminate BNC sockets.

- Built-in 50Ω resistor

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP0655	$5.90	$5.20	$4.70

For next day delivery, or Click and Collect, see page 5

Cat5/6 Cables And Testers

CAT5E PATCH LEADS

RJ45 to RJ45.
- 350MHz stranded cable

ACMA Approved

p.318 - wallplates and keystones

Colour		Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Blue		0.5m	YN8200	$3.90	$3.40	$3.00
Blue		1.0m	YN8201	$4.90	$4.10	$3.70
Red		1.0m	YN8211	$4.90	$4.10	$3.60
Yellow		1.0m	YN8221	$4.90	$4.10	$3.60
Green		1.0m	YN8231	$4.90	$4.10	$3.60
Blue		2.0m	YN8202	$6.90	$6.20	$5.50
Red		2.0m	YN8212	$6.90	$5.70	$4.90
Yellow		2.0m	YN8222	$6.90	$5.70	$4.90
Green		2.0m	YN8232	$6.90	$5.70	$4.90
Blue		3.0m	YN8203	$8.90	$7.90	$6.90
Blue		5.0m	YN8204	$10.90	$9.50	$8.50
Green	NEW	5.0m	YN8234	$9.90	$8.90	$7.90
Yellow	NEW	5.0m	YN8224	$9.90	$8.90	$7.90
Red	NEW	5.0m	YN8214	$9.90	$8.90	$7.90
Blue		10.0m	YN8205	$17.90	$15.90	$14.30
Blue		15.0m	YN8206	$26.90	$23.90	$21.30
Blue		20.0m	YN8207	$29.90	$26.90	$23.70
Blue		30.0m	YN8208	$45.90	$40.90	$36.40

2 IN 1 NETWORK CABLE TESTER & DMM

This innovative device is ideal for network installers or technicians and will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, and continuity etc. without needing to carry two separate devices. The unit will check for cable continuity, open-circuits, short-circuits, and cross-connects etc. A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator, and multimeter leads.

p.235 full specifications

LAN Tester Specifications:
- LAN tester checks faults
- Mis-wired conductors
- Manual or automatic testing

DMM Specifications:
- 600 volt max input
- 200mA AC/DC
- 20M ohm resistance
- 3.5 digit
- Diode test
- Data hold
- Max hold

LIFE — LIFETIME GUARANTEE

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC5078	$99.90	$89.90	$79.90

4P/6P/8P/ MODULAR CRIMP TOOL WITH NETWORK/POE TESTER

Designed for a wide range of residential structured wiring, and professional applications. After crimping a modular connector, it enables you to quickly and easily test ethernet twisted pair cable located on the handle of the tool for wiring continuity, opens, shorts, and mis-wires. With a single press on the TEST button, it will test the cable and gives the result of pin to pin configuration of the cables. Can also clip out of the housing and can be used as a general network tester. The tool is steel framed with PVC handles and rust resistant black oxide finish. Includes a PoE (Power-over-Ethernet) finder to check if a voltage is present on a port or cable you are testing. Supplied with a carry pouch that can directly worn on your belt.

- Testing for both UTP and STP cable
- Testing cable for continuity, opens, shorts, mis-wires
- Pin to pin indication
- Single and multi-wired cable crimping
- Integrated cable stripper and cutter
- Crimping tool and cable tester in one
- Detachable cable tester

1 YEAR WARRANTY

TESTER UNIT	TH1939
Display Method	LED
Battery Low	LED flash indicator
Power Supply	4.5VDC (Includes 3 x LR-44 (SB2950) type batteries)
CRIMPER UNIT	
Suitable For	8P, 6P, 4P
Dimensions	195(L) x 65(W) 23(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH1939	$94.90	$85.50	$76.90

CROSSOVER ETHERNET CABLES

Crossover cable eliminates the need for a hub when connecting two computers.

Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	2.0m	YN8272	$7.90	$6.90	$5.90
Black	5.0m	YN8274	$13.90	$12.50	$11.10
Black	10.0m	YN8275	$20.90	$18.80	$16.70

CAT 6A PATCH CABLES

Upgrade your home or office network to speeds up to 10Gbps. Will drastically reduce bottlenecks in file transfers, improve daily redundancy routines on networked drives, and lower crosstalk which is more prevalent in business environments.

- Blue sheathed
- All models are ACMA approved

ACMA Approved

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	YN8292	$5.30	$4.70	$4.20
1m	YN8293	$6.90	$6.20	$5.50
2m	YN8294	$9.90	$8.50	$7.50
3m	YN8295	$11.90	$10.70	$9.50
5m	YN8296	$18.90	$16.90	$14.90
10m	YN8297	$29.90	$26.90	$23.90
20m	YN8298	$42.90	$38.60	$34.30
30m	YN8299	$54.90	$49.40	$43.90

MINI NETWORK CABLE TESTER WITH POE FINDER

Tests UTP/STP/Coaxial/Modular network cables by manually or automatically detecting missing or disordered wiring, and open or short circuits. It can quickly read the correct pin configuration of 10Base-T cable, 10Base-2 cable, RJ45/RJ11 modular cables, 258A, TIA-568A/568B and Token Ring cable etc. by comparing one transmitting end to the corresponding receiving end. Supplied in a plastic case and with a PoE (Power-over-Ethernet) Finder that indicates if the network port or cable has power.

Package Contents:
- 1 x Main Tester Unit with Terminator
- 1 x PoE Finder
- 2 x BNC Adaptor Cables
- 1 x BNC Male/Male Adaptor
- 3 x RJ45 to RJ11 Adaptors

Specifications:
- 9V battery required (use Cat. SB2423)
- Dimensions:
  Main unit: 80(L) x 55(W) x 22(D)mm
  Remote terminator: 80(L) x 25(W) x 23(D)mm
  PoE finder: 80(L) x 25(W) x 23(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC5084	$54.90	$49.40	$43.90

NETWORK CABLE TRACER

This tone generator is a highly practical network installation and troubleshooting tool which features a single/multi tone signal, test leads and a 4 conductor modular cable. The signal emitted by the tone generator can be easily traced by the companion probe, even when cables are in a bundle or hidden in punch down blocks or wall plates. The generator can also be used for checking telephone line polarity and status ie. Ring/Busy/Idle. The probe is equipped with an insulated inductive pick up and will amplify the tone signal to an audible level. A LED is also included as a visual indicator. The probe has a volume control and either indicator can be switched off if desired.

- The tone generator measures: 115(L) x 60(W) x 30(D)mm
- The signal leads are 185mm long & terminated with alligator clips
- The modular lead is 250mm long & terminated a 4 pin RJ12 plug
- The probe is 205mm long and approximately 35(H) x 35(D)mm
- Both units operate from a 9 volt batteries (sold separately)Use our Cat. SB2423
- Supplied in a protective zip up vinyl case

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC5083	$125.00	$110.90	$98.90

19" Rack Mount Cabinets & Accessories

19" RACK MOUNT CABINETS

Ideal for studios, PA, sound reinforcement, IT, or phone systems installations, with a size and configuration to suit any application. Coupled with our wide range of accessories and options, these 19" rack cabinets offer outstanding features. All come in 1.8mm solid steel powder coated cabinets with clear tempered glass doors.
The sides can be removed for installation or maintenance access and all panels are key-lockable.

- High strength and rigidity under load
- Contemporary design
- Lift off side panels
- Top or bottom cable entry
- Cooling fan hole
- Camlock closures
- Front, sides and back lock separately
- Wall mounting without brackets
- Static loading capacity 60kg

6U
Available flat packed or assembled
Dimensions: 530(W) x 360(H) x 450(D)mm
Flat Packed: Cat HB5170
Assembled: Cat HB5171

12U
Dimensions: 530(W) x 626(H) x 450(D)mm Cat. HB5174

SWING FRAME RACK MOUNT ENCLOSURE

Swing frame enclosures allow you to access the rear of your rack system for maintenance or easier installation. Tempered glass doors and locking panels all round. 6 or 12 unit enclosures available.

1 YEAR WARRANTY

6U
- Dimensions: 600(W) x 380(H) x 610(D)mm

Cat. HB5180

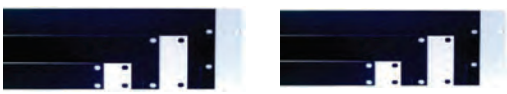
12U
- Dimensions: 600(W) x 630(H) x 610(D)mm

Cat. HB5182

	Cat.	Qty 1+	Qty 4+	Qty 10+
6U Rack Mount - Flatpacked	HB5170	$219.00	$196.90	$174.90
6U Rack Mount - Assembled	HB5171	$229.00	$199.00	$179.00
12U Rack Mount - Flatpacked	HB5174	$279.00	$249.00	$219.00
6U Swing Frame Rack Mount	HB5180	$329.00	$289.00	$259.00
12U Swing Frame Rack Mount	HB5182	$399.00	$359.00	$319.00

RACK CABINET PANELS

Quality brushed anodised panels with a black finish.



FINISH	SIZE		Cat.	Qty 1+	Qty 4+	Qty 10+
Black	44mm	1U	HB5404	$21.90	$19.70	$17.30
Black	88mm	2U	HB5405	$29.90	$26.90	$23.90
Black	132mm	3U	HB5406	$36.90	$33.20	$29.50

19" RACK BLANK PANELS

Blank panels for filling in unused space or configuring panels to your own requirements. Black powder coated steel, 1 or 2 unit, vented or plain. The vented panels are also useful at the back of rack enclosures for attaching wiring looms to.

1U BLANK
- Dimensions: 483(W) x 45(H)mm

Cat. HB5420

1U BLANK VENTED
Cat. HB5424

2U BLANK
- Dimensions: 483(W) x 89(H)mm

Cat HB5422

2U BLANK VENTED
Cat. HB5426

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
1U Blank Panel	HB5420	$13.90	$12.50	$11.10
2U Blank Panel	HB5422	$15.90	$13.70	$11.90
1U Vented Blank Panel	HB5424	$22.90	$20.30	$17.90
2U Vented Blank Panel	HB5426	$33.90	$29.90	$26.90

PRO GRADE 19" RACK STYLE EQUIPMENT ENCLOSURES

Complies with IEC 297 / EIA RS- 310 C-1977 / DIN 41494 standards. Each cabinet is made from phosphated steel and coated with a dark grey enamel. The colour matched rack front panel is in 3mm aluminium with extruded handles (excluding 1U). The rear panel is aluminium as well. The top, bottom and sides of each cabinet are liberally punched with ventilation holes. All screw fasteners are metal thread - not self tappers. Top, bottom, front and rear of enclosure can be separately removed without affecting the integrity of the cabinet. Each enclosure comes with punched internal rail bars to facilitate PCB, transformer, filter capacitor etc, mounting independent of cover panels. Each cabinet also features an internal sub panel (in 1.5mm enamelled aluminium) which is adjustable from 0-20mm from the back of the front panel. This panel is ideal for mounting panel hardware (no screws need appear on front panel). Rear panel is also adjustable 0-20mm inwards.

- The entire cabinet is packed flat for convenient transport.
- Rubber mounting feet are provided

1 YEAR WARRANTY

DIMENSIONS (MM)	1U	2U	3U
Panel Height	44	88	133
Cabinet Height	39	84	128
Cabinet Depth	245	335	335
Width	482.6	482.6	482.6

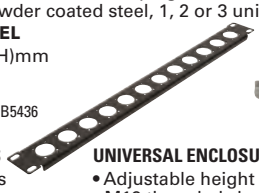
	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Unit Enclosure	HB5120	$94.90	$85.40	$75.90
2 Unit Enclosure	HB5125	$149.00	$133.90	$118.90
3 Unit Enclosure	HB5130	$159.00	$142.90	$126.90

RACK PANEL ACCESSORIES

A range of accessories to complete your rack system - blank panels for filling in space, vent panels and panels for fans or mic sockets, braked castors and feet for keeping it all where you want it. Panels are black powder coated steel, 1, 2 or 3 unit.

1U 12 X XLR SOCKET PANEL
- Dimensions: 483(W) x 45(H)mm

Cat. HB5436



HB5436

HB5470

UNIVERSAL BRAKED CASTORS
- Ball bearing swivel castors
- Universal mounting plate
- Suitable for rack cabinets, speaker boxes, etc.
- Sold as a set of 4
- Mount plate: 70(L) x 55(W)mm
- Wheel: 50(Dia) x 30(W)mm
- Overall Height: 75mm

CAT. HB5470

UNIVERSAL ENCLOSURE FEET
- Adjustable height
- M12 threaded shaft
- Supplied with locking nut
- Sold as a set of 4
- Suitable for rack cabinets, speaker boxes, etc.
- Dimensions: 60(H) x 50(Dia.)mm

CAT. HB5472

HB5472

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
1U XLR Socket Panel	HB5436	$15.90	$13.70	$12.30
Braked Castors - Set of 4	HB5470	$42.90	$38.60	$34.30
Adjustable Feet - Set of 4	HB5472	$24.90	$22.40	$19.90

PATCH LEAD MANAGEMENT PANEL

Keeps all your patch leads under control.
- 1U size
- Removable cover plate

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
483(W) x 45(H) x 68(D)mm	HB5434	$39.90	$35.90	$31.90

RACK MOUNT CAT 5E/6 PATCH PANELS

Sleek attractive looking rack mount 24 port patch panel with a hard metal exterior. Numbered ports and a labelling area for each port. Also comes with instruction stickers on the back for easier cabling. See our tool section for punch-down tools on page 214.

- Takes up 1 rack unit
- 24 port
- Numbered ports
- Labelling area
- Cat 5e or Cat6

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
24 Port - Cat 5e Panel	YN8046	$59.90	$53.90	$47.90
24 Port - Cat 6 Panel	YN8048	$83.90	$75.50	$66.90

For next day delivery, or Click and Collect, see page 5

Converters & Adaptors

USB TO DB9M RS-232 CONVERTER

1 YEAR WARRANTY

This USB to 9 pin Serial (RS-232) converter allows a computer with a USB port to use any RS-232C serial device via the USB port. Suitable for digital cameras, modems, POS systems, ISDN terminal adaptors etc. The converter is powered by the USB port.

- Full compliance with USB specification 1.1(0)
- Over 1Mbps data transfer rate
- Support remote wake-up and power management
- Cable 1.5m long
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 8.6+, Linux

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	XC4834	$36.90	$33.20	$29.50

USB TO PARALLEL BI-DIRECTIONAL CABLE

1 YEAR WARRANTY

This handy device replicates the old 25 pin printer socket and lets you use your legacy devices just like you would with a normal printer port. The USB interface provides up to 12Mbps data throughput, so printing is significantly faster compared with standard a parallel port (150kbps) connection.

- USB Printer Class Specification 1.0 compliant
- IEEE1284 1994 (Bi-directional parallel interface)
- USB 1.1 Compliant A type male connector
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP
- Plug & Play support

	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	XC4847	$47.90	$42.90	$38.40

RS-232 DB9 TO USB CONVERTER

Connect a variety of legacy RS-232 devices to your modern computer with this simple adaptor.

- USB 1.1 compliant / Speed: Over 250kbps
- Remote wake-up and power management
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4927	$37.90	$33.90	$30.40

SERIAL TO ETHERNET CONVERTER

1 YEAR WARRANTY

An ideal solution for people who need to monitor or access RS-232 based equipment remotely or to share them over a network. There is one 9-pin male RS-232 plug, an RJ-45 socket and a terminal block to wire up RS-485 or RS-422 connections. Can be accessed remotely through a simple web interface.

SPECIFICATIONS	XC4134
Supports	10/100M
Converts	RS-232, RS-485 & RS-422
Dimensions	88(L) x 68(W) x 27(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4134	$179.00	$160.90	$142.90

USB PORT TO RS-485/422 CONVERTER

1 YEAR WARRANTY

The days of on-board communication ports other than USB are virtually just a memory now, but they're still very common. RS-485/422 is commonly found in thermal printers (e.g. point of sale), modem communications, and more. This converter provides that connection from your modern USB port with great reliability.

SPECIFICATIONS	XC4136
Baud Rate	300bps-921kbps
Standards	TIA/EIA RS-485/RS-422
Supports	Windows XP/Vista/7/8/8.1/10 (32/64-bit)/Linux/Mac OS

	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	XC4136	$56.90	$50.90	$44.90

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Gender Changers

DB9

All Pins wired straight through.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Male/Male	PA0900	$7.90	$7.20	$6.50
Female/ Female	PA0901	$7.90	$7.20	$6.50

DB9 MALE TO FEMALE ADAPTOR

DB9 Male to DB9 Female

	Cat.	Qty 1+	Qty 4+	Qty 10+
DB9	PA0908	$7.90	$7.20	$6.50

DH15HD PLUG TO SOCKET

VGA plug to socket right adaptor.

- Available with the socket angles up or down

	Cat.	Qty 1+	Qty 4+	Qty 10+
Angled Up	PA0898	$10.90	$9.50	$8.50
Angled Down	PA0899	$10.90	$9.50	$8.50

DB25/DB9

D25 Female to D9 Male serial port adaptor.

	Cat.	Qty 1+	Qty 4+	Qty 10+
DB25F/DB9M	PA0882	$7.90	$7.20	$6.50

DB15HD

All Pins wired straight through.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Male/Male	PA0875	$8.90	$7.90	$6.90
Female/ Female	PA0876	$8.90	$7.90	$6.90

USB "A" FEMALE TO "A" FEMALE

	Cat.	Qty 1+	Qty 4+	Qty 10+
Skt to skt	PA0921	$9.90	$8.50	$7.50

USB "A" MALE TO PS/2 FEMALE

USB "A" FEMALE TO PS/2 MALE

Colour may vary

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Male	PA0915	$9.90	$8.50	$7.50
USB Female	PA0917	$9.90	$8.50	$7.50

DB25 MALE TO RJ45 8 X 8 SOCKET

- Unwired

	Cat.	Qty 1+	Qty 4+	Qty 10+
DB25 Male	PA0904	$9.90	$8.50	$7.50

DB9 SOCKET TO RJ45

Socket adaptor

- Unwired

	Cat.	Qty 1+	Qty 4+	Qty 10+
DB9 Female	PA0906	$7.90	$7.20	$6.50

DIGITAL VIDEO INTERFACE

Female to female

- Compatible with DVI-I single dual link, DVI-D single/ dual link & DVI-A male
- All pins wired straight through

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA0896	$19.90	$17.70	$15.70

DVI-A PLUG TO VGA SOCKET

For connecting DVI-A or DVI-I video cards with VGA monitors.

Note: will not display digital video signal from a DVI-D output, even though the plug physically fits.

	Cat.	Qty 1+	Qty 4+	Qty 10+
DVI-M to VGA-F	PA0897	$15.90	$13.70	$12.30

pick me Computer Leads

Cat.	Connectors		Length	Quality
WC7534	DB9 Plug	DB9 Socket	1.8m	Best
WC7511	DB9 Socket	DB9 Socket	0.5m	Best
WC7513	DB9 Socket	DB9 Socket	1.8m	Best
WC7535	DB9 Plug	DB9 Plug	1.8m	Best
WC7516	DB25 Plug	DB9 Socket	1.8m	Best
WC7590	DVI-A Plug	DVI-D Plug	2.0m	Best
WC7594	DVI-A Plug	DB15HD Plug	2.0m	Best
WC7584	DB15HD Plug + 3.5mm Stereo	DB15HD Plug + 3.5mm Stereo	1.8m	Good

Cat.	Connectors		Length	Quality
WC7500	DB15HD Plug	DB15HD Socket	1.8m	Good
WC7583	DB15HD Plug	DB15HD Plug	0.5m	Good
WC7582	DB15HD Plug	DB15HD Plug	1.8m	Good
WC7585	DB15HD Plug	DB15HD Plug	0.5m	Best
WC7586	DB15HD Plug	DB15HD Plug	2.0m	Best
WC7588	DB15HD Plug	DB15HD Plug	5.0m	Best
WQ7258	DB15HD Plug	DB15HD Plug	10.0m	Best
WQ7257	DB15HD Plug	DB15HD Plug	15.0m	Best

Serial Cables

DB9 MALE TO DB9 FEMALE EXTENSION CABLE

All pins wired straight through.

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7534	$11.90	$10.70	$9.50

DB9 MALE TO DB9 MALE

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7535	$11.90	$10.70	$9.50

DB9 FEMALE TO DB9 FEMALE NULL MODEM

	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7511	$9.50	$8.50	$7.50
1.8m	WC7513	$15.90	$14.30	$12.70

SERIAL MODEM CABLE

DB25 Male to DB9 Female

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7516	$15.90	$14.30	$12.70

DVI Video Cables

DVI TO DVI VIDEO CABLE

- Can be used for DVI-A or DVI-D
- Male to Male
- 24 pin
- 2m

	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC7590	$36.90	$33.20	$29.50

DVI TO VGA VIDEO CABLE

- DVI to 15 pin HD VGA
- 2m

	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC7594	$29.90	$26.90	$23.70

Monitor Cables

VGA MONITOR LEAD WITH 3.5MM AUDIO

1.8m VGA DB15HD to DB15HD lead. Includes a stereo 3.5mm plug at each end for audio transfer

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7584	$20.90	$18.80	$16.70

VGA MONITOR EXTENSION

DB15HD Male to DB15HD Female

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7500	$15.90	$14.30	$12.70

VGA MONITOR CONNECTING CABLE

DB15HD Male to DB15HD Male

	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7583	$9.50	$8.50	$7.50
1.8m	WC7582	$15.90	$14.30	$12.70

XVGA MONITOR CONNECTING CABLES

- DB15HD male to DB15HD male
- Ferrite supression on both ends
- Superior electrical screening

	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7585	$11.90	$10.70	$9.50
2.0m	WC7586	$22.90	$20.30	$17.90
5.0m	WC7588	$47.90	$42.90	$38.40
10.0m	WQ7258	$59.90	$53.90	$47.90
15.0m	WQ7257	$83.90	$75.50	$66.90

KVM Switch

2-PORT USB KVM SWITCH

Share your keyboard, monitor, mouse, and USB devices between two different computers. It features a physical pushbutton switch, as well as hotkey switching support. High resolution 2048 x 1536 display support ensures you're not limited to low-grade monitors either. Power is even supplied by the USB ports, so there's no power supply needed. Plug and play operation with no drivers required.

SPECIFICATIONS	YN8402
Max Video Resolution	2048 x 1536 (> Full HD)
Switching Mode	Pushbutton / Hotkey Sequence
Operating Systems	Supports All Major Operating Systems
Dimensions	92(W) x 65(D) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Port	YN8402	$74.90	$66.90	$59.90

For next day delivery, or Click and Collect, see page 5

Display Leads & Adaptors

DISPLAYPORT TO DISPLAYPORT MALE LEAD

A DisplayPort lead primarily used to connect a video source to a display device such as a computer monitor.
- Supports DisplayPort V1.2

1 YEAR WARRANTY

Type	Length	Hz	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to Plug	1.8m	60	WQ7450	$24.90	$22.40	$19.90
Plug to Plug	3.0m	30	WQ7452	$39.90	$35.90	$31.90
Plug to Mini Plug	1.8m	30	WQ7454	$39.90	$35.90	$31.90

MINI DISPLAYPORT TO VGA CONVERTER

Connect modern computers with a Mini DisplayPort to a conventional VGA display, such as CRT, LCD monitor or projector. Mini DisplayPort offers a unified, scalable, and cost effective interface for embedded and external display applications.
- Mini DisplayPort 1.1a compliant
- Supports up to 1080p, 1920 x 1200 video resolution

1 YEAR WARRANTY

Type	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
VGA	1.8m	WQ7440	$39.90	$35.90	$31.90

MINI DISPLAYPORT CONVERSION LEADS FOR MAC®

Connect your Mac® to a high definition display with a mini display port conversion lead.
- Designed for Mac® computers
- Plug and play

1 YEAR WARRANTY

Type	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI	1.8m	WQ7442	$39.90	$35.90	$31.90
HDMI	3.0m	WQ7443	$42.90	$38.60	$34.30
DVI	1.8m	WQ7444	$39.90	$35.90	$31.90

UNIVERSAL HDMI CABLE FOR SMARTPHONES

Connect a large display to your smartphone quickly and easily. This ingenious device provides a USB plug for power (optional depending on your devices), HDMI plug to connect to the TV, and a USB socket. Simply connect your smartphone with its USB charge/sync cable to the USB socket, and you're ready to go! No longer are your cat videos confined to your smartphone screen! Compatible with modern iOS™ and Android devices, with no app installation required. Supports resolutions up to 1080p.
- Connect a mobile device to a HDMI screen
- Compatible with iOS™ 8, Android 4.5, or higher

1 YEAR WARRANTY

SPECIFICATIONS	WC7650
Cable Length	1.9m
Dimensions	26(W) x 6(H) x 69(D)mm

	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI	1.9m	WC7650	$56.90	$50.90	$44.90

USB TYPE-C TO HDMI CABLE

Connect a HDMI display directly to your USB Type-C enabled device. Provides up to 4K resolution @ 30Hz, compatible with HDCP 2.2. Quality gold plated connectors. 1m long.

1 YEAR WARRANTY

SPECIFICATIONS	WC7950
HDCP	1.4, 2.2
HDMI	1.4, 4K HD
Cable Length	1m

	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI	1m	WC7950	$56.90	$50.90	$44.90

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MINI DISPLAYPORT TO DISPLAYPORT/ HDMI/DVI CONVERTER

Combine several mini DisplayPort converters into one with this useful unit. Easily converts to high definition displays that take HDMI, DVI or DisplayPort. Fully powered from the mini DisplayPort of your input device. A useful tool to use with your Macbook Air® or other Apple® device when wanting to output to a large screen TV.
- Output types: DisplayPort Female Type A 20pin, HDMI Female Type A, DVI Female (24+1)
- Supports DisplayPort 1.1a
- HDMI can support audio output for iMac® and MacBook Pro®
- HDMI/DVI output up to 1920 x 1080p @ 60Hz
- DisplayPort 1.1a Dual-mode output with max resolution of 2560 x 1600
- Lead length: 180mm
- Unit Dimensions: 78(L) x 44(W) x 15(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
180mm	WQ7427	$49.90	$44.90	$39.90

USB 3.0 TYPE-C TO DISPLAYPORT CONVERTER

This USB 3.0 Type-C to DisplayPort converter is designed to convert an existing DisplayPort signal to a new USB Type-C connector. This converter takes advantage of high performance USB Type-C connectors and doesn't need complicated drivers. Delivers up to 4 x 2K resolution depending on the application.

1 YEAR WARRANTY

SPECIFICATIONS	XC4971
Interface	USB 3.0 Type-C
Display Port	V1.2
Resolution	Up to 4 x 2K, 60Hz
Dimensions	43(L) x 43(W) x 13(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
180mm	XC4971	$45.90	$40.90	$35.90

TYPE-C CONVERTERS

These USB 3.0 Type-C converters are designed to take advantage of high performance USB Type-C connectors to convert to an existing VGA, DVI and HDMI signal. These converters don't need complicated drivers and delivers up to 1080p resolution depending on the application.

1 YEAR WARRANTY

SPECIFICATIONS	XC4961	XC4965
Interface	USB 3.0 Type-C, VGA 15 pin	USB 3.0 Type-C, HDMI V1.4B
Resolution	up to 1080p, 60Hz	up to 4 x 2K, 30Hz
Dimensions	43(L) x 43(W) x 13(D)mm	43(L) x 43(W) x 13(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
VGA	XC4961	$45.90	$40.90	$35.90
HDMI	XC4965	$79.90	$71.90	$63.90

USB TYPE-C AV MULTIPORT ADAPTOR

The USB Type-C AV multiport adaptor lets you connect your MacBook®, Google Chromebook™ and other devices with a USB Type-C port to an HDMI display, while also connecting two USB devices and a USB Type-C power delivery charging port. This adaptor allows you to mirror your Type-C devices display to your HDMI enabled TV or monitor in up to 4K resolution. With a unique power delivery system, it enables an existing Type-C power supply to charge your laptop while the multiport adaptor is connected. It recognised and adjusts the device's specific voltage requirement including 5, 12, 14.5 and 20V to support laptops.

SPECIFICATIONS	XC4967
Interface	USB 3.0 Type-C
Inputs	2 x USB 3.0 Type-A Ports 1 x USB 3.0 Type-C Power Delivery/Data Port
Output	1 x HDMI V2.0 @ 30Hz
Video Resolution	4 x 2K
USB Transfer Rate	up to 80Mbps
Power Delivery Profile	4 (20V, 3A Max)
Power Delivery Support	2.0 (V1.1)
Dimensions	81(L) x 52(W) x 15(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4967	$119.00	$106.90	$94.90

Splitters & Switches

2 PORT VGA/AUDIO SPLITTER

Takes a computer's VGA and audio signal and sends it to two (2) analogue monitors and headphones/ speakers. The same image is displayed on both monitors and identical audio streams are piped to each 3.5mm audio jack. The splitter provides fast, flexible solutions for test bench facilities, data centres or video broadcasting such as remote monitoring, presentations, education and stock quotes etc. Supports VGA, SVGA, XVGA and Multi-Sync. Mains power adaptor included.

- Bandwidth up to 500MHz
- Resolution up to 1920 x 1200 and 1080p
- Transmit video/audio up to 15m
- Dimensions: 125(W) x 25(H) x 72(D)mm

p.447 HDMI AV converter with audio output

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Port Splitter	YN8075	$94.90	$85.40	$75.90

2 WAY DISPLAYPORT SPLITTER

This splitter allows for a DisplayPort signal to be split to two different devices such as computer monitors, TV's or projector screens. DisplayPort can be used to transmit audio and video simultaneously, but each one is optional and can be transmitted without the other. HDMI and DVI output achievable with use of a passive adaptor or Mini DisplayPort with the use of an additional converter cable. Typically suited for small-scale use in the home, office, shop fronts or classrooms where only two duplicated displays are required. Compliant with VESA DisplayPort standard link rates of 1.62, 2.7 and 5.4Gbps. Includes a mains power adaptor.

SPECIFICATIONS	AC1755
Input	1 x DisplayPort
Outputs	2 x DisplayPort
Resolution	up to 4X2K (4096 x 2160) @ 60Hz
DisplayPort	V1.2a
Audio	up to 7.1 Channel
Compliant	DP++, HDCP
Power	5VDC, 1A
Dimensions	71(L) x (61)W x 21(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+
2 Way	AC1755	$59.90

2 WAY DISPLAYPORT SWITCHER

With the flick of a switch this product allows you to select from one of two DisplayPort sources to output to a single computer monitor, TV or projector. Suitable for when you want the flexibility of switching between two audio visual sources for the one display device. DisplayPort can be used to transmit audio and video simultaneously, but each one is optional and can be transmitted without the other. HDMI and DVI output achievable with use of a passive adaptor or Mini DisplayPort with the use of an additional converter cable. Typically suited for small-scale use in the home, office, shop fronts or classrooms where two sources need to be switched. Compliant with VESA DisplayPort standard link rates of 1.62, 2.7 and 5.4Gbps. Switching is operated manually on the front of the unit. Includes a mains power adaptor.

SPECIFICATIONS	AC1757
Input	2 x DisplayPort
Outputs	1 x DisplayPort
Resolution	up to 4X2K (4096 x 2160) @ 60Hz
DisplayPort	V1.2a
Audio	up to 7.1 Channel
Compliant	DP++, HDCP
Power	5VDC, 1A
Dimensions	71(L) x (61)W x 21(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+
2 Way	AC1757	$59.90

Video Converters

COMPOSITE & S-VIDEO TO VGA VIDEO CONVERTER WITH VGA LOOP THROUGH

Connect a composite video or S-video source to a display monitor which only has VGA input. Ideal for connecting an old game console, VHS player, etc. to your computer monitor or plasma TV. Features an on screen display where you can adjust resolution, picture mode, brightness, contrast, saturation and hue. Also has VGA loop through so you can have a computer and composite/S-video source connected to the same display.

- On screen display
- Supports PAL/NTSC
- Digital comb filter to prevent cross colouring
- Compatible resolutions: 800 x 600 @ 60Hz/75Hz, 1024 x 768 @ 60Hz, 1280 x 1024 @ 60Hz, 1280 x 720 @ 60Hz, 1360 x 768 @ 60Hz, 1440 x 900 @ 60Hz, 1600 x 1200 @ 60Hz, 1680 x 1050 @ 60Hz, 1920 x 1080 @ 60Hz, 1920 x 1200 @ 60Hz
- Dimensions: 95(L) x 54(W) x 26(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4906	$69.90	$62.90	$55.90

VGA TO COMPOSITE & S-VIDEO CONVERTER

NEW

Connect your computer to a regular TV or projector! Converts a VGA output to standard composite video and s-video outputs (simultaneously). Powered by USB, with full PC / Mac plug & play support.

- Simultaneous Video, and S-Video output
- Powered via USB
- PC & Mac supported

Supported Resolutions:
640x480 @ 60/70/75/85Hz
800x600 @ 60/75Hz
1024x768 @ 60Hz/75Hz
1280x768 @ 60Hz
1280x1024 @ 60Hz

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4907	$56.90	$50.90	$44.90

USB 3.0 TO DVI/VGA 1080P CONVERTER

1 YEAR WARRANTY

This unit uses USB3.0 transmission and contains an effective processor for high definition images.

Connect multiple displays and extend your screen for multi-media and video conferencing.

- Add-on monitor, LCD or projector through USB3.0 Super-Speed connectivity
- Supports widescreen aspect ratio of 16:9 Full HD 1080P video streaming
- Supports resolutions up to 2048 x 1152 @ 32bit
- Up to four USB3.0 graphic adapters to work simultaneously
- Automatic recognition of monitor type, resolution, and features
- Hot-swapping / Plug-n-Play of monitors without reconfiguration
- Movement of windows on the desktop is smooth, with no trail or shuddering
- Compatible with power management hibernate and suspend modes
- Specialized for office using, home entertainment, and video playing
- Supports Windows XP / Vista / 7 / 8 / 8.1 / 10 (32/64-bit) and Mac OS

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 to DVI/VGA 1080P	XC4974	$119.00	$106.90	$94.90

USB 3.0 (AUDIO/VIDEO) TO HDMI CONVERTER

A great solution if your current PC has limited display outputs but you require more screen landscape. It also carries audio through to the HDMI output so you can turn your PC into a home theatre PC without audio sync issues.

- Supports 16:9 full HD 1080p video streaming
- Resolutions up to 2048 x 1152 @ 32 bit colour
- Supports desktop mirror, extend mode, multi-screen mode, & rotation mode
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+
- Dimensions: 275mm x 35mm x 15mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4973	$129.00	$115.90	$102.90

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Monitor Brackets

PC MONITOR DESK STAND

Features a sturdy base designed to keep your desk clutter free and monitor at eye level. Cable management allows you to run your power and video leads down the structure of the stand to keep your workspace clear of cables.

- Black powder coated finish will ensure it doesn't get scratched too easily
- Supports up to an 8kg Monitor

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW2876	$99.90	$89.90	$79.90

DUAL MONITOR DESK STAND

This desktop unit will accommodate two monitors up to 27" each with a combined weight up to 8kg. There's no clamp, just a large base to sit on the desk top, so it's suitable for glass / sensitive table-tops too. Supports 75mm and 100mm VESA mounts, and is height adjustable. Cable-tidy clips are provided to keep all those cables neat, and screen mounting hardware (spacers, screws, etc.) are also provided.

SPECIFICATIONS	CW2880
Monitor Size	13-27" each
Max Weight	8kg combined
Weight	4.3kg
Dimensions	Max Arm Span: 700mm, Height: 405mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	CW2880	$119.00	$107.00	$95.00

PC MONITOR DESK BRACKET

Improve your workspace ergonomics and free up your desk area by suspending your display above your table. The flexible design clamps to the edge of the desk and offers an exceptional range of motion to position the monitor. Fits most 13 to 27 inch flat-screen displays with VESA compliant mount points and a maximum weight of 8kg. Includes all necessary mounting hardware to suit a variety of monitors.

- Adjustable tilt, swivel and rotation
- Cable managment clips on arm
- Maximum arm heightabove table: 410mm
- Maximum arm extension from upright: 394mm
- Maxium clamp point thickness: 65mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW2874	$74.90	$67.40	$59.90

DUAL PC MONITOR DESK BRACKET

VESA-compliant. Its unique, flexible design offers an exceptional range of motion and allows monitors to be placed back-to-back for use by more than one person. Other features include display adjustment with tilt, swivel and rotation capabilities and fits most 13" to 17" flat-screen displays. Its durable, all-metal frame with scratch-resistant, powder-coat finish withstands the stress of repeated use and blends easily into any decor. It comes with all necessary mounting hardware, and each mount supports weights of up to 8kg.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW2875	$99.90	$89.90	$79.90

PC Security

COMBINATION NOTEBOOK CABLE LOCK

As easy as typing in four digits to unlock your phone, this laptop security cable has a four digit combination that you can customise for security. It's 1.8m long and has a swivel on the end so moving it around your desk area will not be a problem.

- 4 digit combination & steel lock mechanism

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	XC4639	$20.90	$18.80	$16.70

MONITOR STAND WITH USB HUB AND CARD READER

NEW

Designed to raise your monitor up to a comfortable viewing height and de-clutter your desk the same time. This stand with stylish wooden top raises your monitor 55mm off your desk so you get a better view, avoiding a pain in the neck. On the side of the stand is a 3 port USB 3.0 Hub to connect your keyboard, mouse and other USB devices, and a card reader to read files from your SD and microSD memory cards. There is also a USB port with QuickCharge technology to quickly charge compatible Smartphones. When you're not using your keyboard and mouse, they can be stored underneath to free up more desk space.

- Monitor Size: Up to 27"
- USB Outputs: 3 x USB 3.0 and 1 x USB Quick Charge

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4312	$119.00	$106.90	$94.90

ARTICULATING LCD MONITOR DESK MOUNT

NEW

A fantastic way to position your monitor for the best viewing angle, and to free up space on your desk at the same time. Fix the bracket to your desk using the adjustable C-type clamp, and mount your 15-27" monitor using the supplied mounting hardware. The articulating arms with gas springs enable you to tilt the monitor up 90°, down 85°, pan it 180°, and rotate the monitor around a 360° range. There are also cable clips running down the arm shafts to allow you to neatly tuck away your video and power cables.

- Suits Monitors 15-27"
- 2-6.5kg
- 75x75 and 100x100 VESA Mount
- -90°/+85° Tilt
- 180° Swivel
- 360° Rotate

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 6+
	CW2900	$94.90	$84.90	$75.90

Keyboard & Mouse Combos

MINI WIRELESS KEYBOARD MOUSE COMBO

1 YEAR WARRANTY

This handy keyboard features the full QWERTY key layout and a brilliant little touchpad mouse. It also has those handy media shortcut keys, play, pause, fast forward/ rewind and volume controls etc. Operates on the popular 2.4GHz band for easy wireless access. Includes nano sized USB dongle.

- Low battery power LED indicator
- USB plug and play, no drivers required

SPECIFICATIONS	XC4951
Operation range:	10m
Power:	2 x AAA batteries (included)
Compatibility:	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.6+, Linux & Android
Dimensions:	146(L) x 95(W) x 17(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Mini Wireless Keyboard & Mouse	XC4951	$33.90	$29.90	$26.90

Keyboard & Mouse Combos

WIRELESS USB KEYBOARD AND MOUSE

NEW

1 YEAR WARRANTY

An all-in-one 2.4GHz wireless keyboard and mouse solution ideal for home or office PC applications. Features full QWERTY layout with function keys, numeric keypad, and 8 hotkeys. The ergonomically designed mouse has a scroll wheel and selectable DPI resolution from 800 to 1600 to suit your preference. A nano-sized USB receiver is also supplied for connection to your PC.

- Wireless operation up to 10m
- Plug and play
- Optical mouse with adjustable DPI resolution
- 2.4GHz wireless
- Works with Windows & Mac®
- Adjustable DPI precision 800 /1200/1600
- Full QWERTY layout with 8 hotkeys
- USB 1.1 compatible
- Includes 2 x AAA battery for keyboard and 2 x AAA batteries for mouse

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC5136	$33.90	$29.90	$26.90

Keyboards

BLACK QWERTY USB KEYBOARD

1 YEAR WARRANTY

This incredibly flat and light QWERTY keyboard is plug & play and simple to use. Change the inclination with the two stands that are discreetly tucked away on the sides.

- Supports API or APM II
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 452(L) x 161(W) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Wired	XC5146	$13.90	$12.50	$11.10

ROLL UP QWERTY KEYBOARD

1 YEAR WARRANTY

The bendable silicon allows for easy transportation and the material creates a soundless typing experience. Perfect for industrial or wet areas such as factories, labs, workshops, restaurants, shops and food preparation areas. As it rolls up into a compact bundle, it's also ideal for travellers.

- USB interface
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Can be rolled up to 135(H) x 80(Dia)mm
- Laid out dimensions: 405(W) x 135(D) x 10(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Wired	XC5172	$25.90	$22.90	$20.90

MULTI-DEVICE BLUETOOTH® KEYBOARD

NEW

A stylish and functional 78 key mini Bluetooth® 3.0 keyboard with the functionality of 104 keys. It will pair with Windows, Android, Mac®, and iOS® devices, including computers, Smartphones or Tablets. It features a QWERTY layout with quiet-key action, along with function and arrow keys, and an LED to indicate pairing, out of range, or battery status. Lightweight, waterproof and dustproof, the rugged construction will give an estimated switch life of 5 million cycles.

- Wireless operation up to 10m
- 2 x AAA batteries included
- Works with Android, Windows, Mac®, and iOS®

Bluetooth®

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC5138	$56.90	$50.90	$44.90

Mice & Accessories

BUDGET 3 BUTTON OPTICAL MOUSE

A low profile, ergonomic 3-button optical mouse. Simple and easy to use. Plug and play.

- Resolution: 1000 DPI
- Zoom-in, zoom-out; page up, page down
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Wired	XM5243	$12.90	$11.30	$10.30

USB 5 BUTTON OPTICAL MOUSE

All the normal mouse functions - left and right click, scrolling, plus forward, back and quick-launch button as well as a scroll wheel. Ergonomically shaped for fatigue-free use.

- Resolution: 800/1200/1600
- Plug and play - no drivers required
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM5241	$24.90	$22.50	$19.70

1000DPI WIRED USB MOUSE

An ergonomically designed wired mouse with a 1.35m cable. 2 buttons and scroll wheel makes it simple and easy to use. USB powered, so there are no batteries required.

- 2 buttons and scroll wheel
- Plug-and-play

NEW

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Wired	XM5245	$16.90	$14.90	$13.90

BLUETOOTH® MOUSE

The symmetrical design makes it suitable for either left or right handed users. Features Bluetooth® technology and selectable 800/1200/1600 DPI resolution at the touch of a button for your own personal preference.

- Bluetooth®
- Symetrical design for left & right handed users
- Adjustable DPI resolution
- 2 x AAA batteries included

NEW

1 YEAR WARRANTY

Bluetooth®

	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth®	XM5249	$33.90	$29.90	$26.90

WIRELESS USB MOUSE

Ergonomically designed optical mouse with adjustable DPI precision from 800 to 1600 to suit your personal preference. Features a scroll wheel, two multimedia buttons on the side. and a sleep mode to extend the battery life. Simply click a mouse button to exit the sleep mode.

- Wireless operation up to 10m
- Battery saver mode
- USB 1.1 compatible
- 2 x AAA batteries included

NEW

1 YEAR WARRANTY

2.4GHz

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Wireless	XM5247	$22.90	$20.90	$17.90

COMPUTER MOUSE PAD

Great tracking for all mice types. Made from a blend of Polyester and Spandex and only 2mm thick.

- Non-skid surface holds the mat in place
- Black in colour
- Dimensions: 260(W) x 200(H) x 2(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM5099	$5.90	$5.30	$4.70

For next day delivery, or Click and Collect, see page 5

Gaming Accessories

GAMING HEADPHONES WITH ADJUSTABLE MICROPHONE

A gaming headset designed for hardcore gamers who enjoy many hours of gameplay and demand superior gaming audio, clarity, and bass. They are comfortable and adjust to different head sizes, look great and feature a microphone that swivels 120° degrees. The microphone tucks away out of view when not required. The braided fabric audio lead is over 2m long and incorporates a volume control and mic mute switch. Includes a 2 x 3.5mm to 4 pole adaptor.

- Plug type: 2 x 3.5mm stereo
- Cable length: 2m

1 YEAR WARRANTY

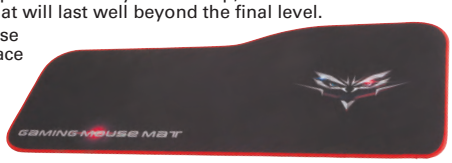
HEADPHONES	AA2126
Frequency Range	20Hz - 20kHz
Impedance	32Ohm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2126	$69.90	$62.90	$55.90

GAMING NON-SLIP MAT FOR KEYBOARD AND MOUSE

This ultra durable gaming pad will keep your keyboard where you want it, and your mouse responsive. Thick 3mm material ensures it smooths out any imperfections in your desktop, for reliable mouse response. Quality that will last well beyond the final level.

- Anti-slip rubber base
- Smooth cloth surface
- Stitched edge
- Dimensions: 795(W) x 345(L) x 3(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM5096	$22.90	$20.90	$17.90

USB GAMING KEYBOARD AND MOUSE

This mighty keyboard and mouse combo will certainly impress your friends at your next gaming event. The keyboard has extremely tactile and quiet keys, a switchable blue backlight, sturdy construction, plus programmable multimedia and Internet keys. The mouse is very sturdy with resolution up to 3200dpi for flexibility.

- Blue LED backlight on keyboard, 4 colours on mouse
- Mouse DPI can be set to 1200, 1600, 2000, and 3200
- Anti-skid scroll wheel
- Multimedia and internet hotkeys

SPECIFICATIONS	XC5132
Dimensions	Keyboard: 488(W) x 209(D) x 34(H)mm Mouse: 124(D) x 71(W) x 45(H)mm
Cable Length	1.5m

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Gaming Keyboard And Mouse	XC5132	$56.90	$50.90	$44.90

PC Audio

PC DESKTOP MICROPHONE - OMNIDIRECTIONAL

A high quality gooseneck microphone that is ideal for Skype chat, podcasting, video conferencing and music/voice recordings. It has a solid base to provide stability and a flexible neck angle to position it to the optimum position.

SPECIFICATIONS	AM4089
Mic Plug	3.5mm
Cable Length	2m
Impedance	<2.2k ohm
Sensitivity	-58dB ±3dB
Frequency	100Hz-16kHz
Directivity	Omnidirectional
Dimensions	355(L) x 9(Dia)mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
3.5mm plug	2m	AM4089	$19.90	$17.90	$15.90

7.1/5.1 USB EXTERNAL SOUND CARD

This device supports analogue and digital audio for 2.1 to 7.1 speakers. There is digital input/output (TOSLINK) plus analogue input (3.5mm) for connecting tablets, smartphones or MP3 players up. There's also a headphone output for the gamer or stealth movie watcher. Simply connect the sound card to your USB port, connect to your speakers and enjoy the pleasures of superior sound.

SPECIFICATIONS	XC4905
Inputs	2 x Microphone (3.5mm) 1 x Digital (Optical TOSLINK) 1 x Line In (3.5mm)
Outputs	1 x Headphone (3.5mm) 1 x Digital (Optical TOSLINK) 1 x Front Left/Right Speaker (3.5mm) 1 x Rear Left/Right Speaker (3.5mm) 1 x Surround Left/Right Speaker (3.5mm) 1 x Centre/Subwoofer (3.5mm) 1 x USB 2.0 B (PC Connection)
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+
Dimensions	120(L) x 60(W) x 22(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+
	XC4905	$45.90	$40.90

USB MIDI INTERFACE 2M CABLE

Connect any MIDI device to your computer: keyboards, controllers, instruments, sound cards, samplers, drum machines etc. Plug and play, no software or drivers required. MIDI in and MIDI out connectors with LED indication.

- Compatible with Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4934	$39.90	$35.90	$31.90

USB POWERED PC SPEAKERS

Portable USB-powered speakers for use with laptops, desktop PCs or mobile music players. Contemporary, space saving design with plug and play functionality. Separate volume control, power switch and headphone output, and as they're powered via your computer's USB, there's no need to use a plug pack or batteries.

SPECIFICATIONS	XC5191
Power Output	1.8WRMS
Input Jack	3.5mm
Input Power	USB
Frequency Response	160Hz - 20kHz
Dimensions	154(H) x 75(W) x 36(D)mm

Plug	Wattage	Cat.	Qty 1+	Qty 4+	Qty 10+
USB	1.8WRMS	XC5191	$17.90	$15.90	$14.30

Screen Cleaner Kit

SCREEN CLEANER KIT FOR SMALL DEVICES

This handy screen cleaner is suitable for all small screens including iPhone®, mobile phones and cameras. The unique cleaning solution removes fingerprints, dust and stains without scratching the screen. Supplied with a washable microfibre finger cloth and a 12ml cleaning solution bottle.

- Drip-free cleaning solution
- Includes 12ml cleaning solution bottle
- Dimensions: 90(H) x 45(W) x 22(D)mm

iPhone® not included.

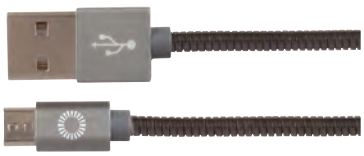
	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR1415	$6.90	$6.20	$5.50

Armoured Leads

Stainless Steel armour-wrapped for long-lasting protection against damage. All 1m long.

USB A TO MICRO B - ARMOURED

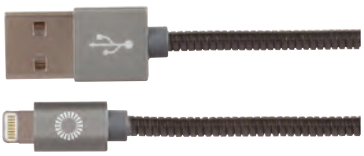
USB 2.0



	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WC7753	$22.90	$20.90	$17.90

USB A TO LIGHTNING® - ARMOURED

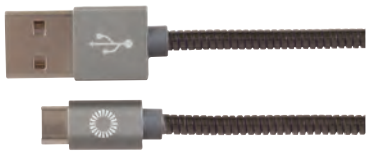
USB 2.0



	Cat.	Qty 1+	Qty 4+	Qty 8+
1.0m	WC7754	$33.90	$29.90	$26.90

USB A TO USB TYPE-C - ARMOURED

USB 2.0



	Cat.	Qty 1+	Qty 4+	Qty 8+
1.0m	WC7755	$33.90	$29.90	$26.90

Legacy Device Charging

USB CHARGE/SYNC LEAD FOR IPOD® / IPHONE® / IPAD®

Suitable for Apple® iPhone®, iPod® and iPad® with 30-pin Apple® connector.

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	WC7689	$6.90	$6.20	$5.50
1m	WC7693	$9.90	$8.70	$7.70
3m	WC7688	$12.90	$11.30	$10.30

SYNC/CHARGE LEAD FOR GALAXY TAB®

Sync/charge lead to suit Samsung Galaxy Tab®.

- Length: 1m

	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC7680	$11.90	$10.70	$9.50

1 year warranty

On all USB leads for peace of mind.

Extra Long USB Leads

ACTIVE USB 2.0 EXTENSION LEADS

Extend your USB devices. A built-in extender allows you to put data over longer distances. All use USB timing and electrical specifications that eliminate signal errors you may get in passive cables. USB 2.0 or 3.0, male to female and cables can be joined up to 25 metres.

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5m	XC4839	$29.90	$26.90	$23.70
10m	XC4120	$47.90	$42.90	$38.40
20m	XC4124	$59.90	$53.90	$47.90

POWERED USB 3.0 EXTENSION LEADS

Suitable for high speed USB 3.0 applications.

- USB A plug to socket
- XC4128 has option for external 5V power to support high consumption device

XC4126 XC4128

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5m	XC4126	$43.90	$39.40	$34.90
10m	XC4128	$79.90	$71.90	$63.90

Extra Long USB Leads

USB RJ45 EXTENSION ADAPTOR

Connect any USB device to your computer from up to 50 metres away via a standard Cat 5 network cable. Now you can have your printer, webcam, keyboard, mouse or any other USB device exactly where you want it without having to move your computer around.

- PC and Mac® compatible
- Requires standard Cat5e cables
- Supports USB 1.1
- Transmitter & Receiver included

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4884	$39.90	$35.90	$31.90

On-The-Go (OTG)

USB 2.0 OTG FEMALE A PLUG TO RIGHT-ANGLE MICRO MALE B PLUG

Connect a USB peripheral to a USB OTG compliant mobile/ portable electronic device, such as your Smartphone.

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC7725	$6.90	$6.20	$5.50

Looking for USB leads?

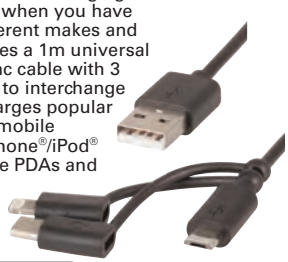
We have a huge range of regular USB charging cables over in the Power section.

Check out page 334.

USB Multi Adaptors

3 IN 1 MICRO B TYPE-C LIGHTNING MFI

Perfect for universal charging of smart devices, when you have all sorts of different makes and models. Includes a 1m universal charge and sync cable with 3 different plugs to interchange as needed. Charges popular smartphones, mobile phones and iPhone®/iPod® as well as some PDAs and MP3 players.



Made for iPhone | iPad | iPod

	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	WC7762	$33.90	$29.90	$26.90

4-IN-1 USB CONNECTION LEAD 1M

A handy cable to replace USB cables and adaptors in your carry bag. The 1m long USB cable has a Type-C plug at one end and Micro B plug at the other. Adaptors at each end can turn the Type-C into a USB A plug, and the Micro B into a Type-C. Features a braided polyethylene cable.

Configurations:

- Type-C to Micro B
- Type-C to Type-C
- USB A to Micro B
- USB A to Type-C

NEW

1 YEAR WARRANTY

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	WC7764	$28.90	$25.90	$22.90

UNIVERSAL USB PHONE CABLE WITH 8 PLUGS

1 YEAR WARRANTY

Perfect for universal charging of smart devices, when you have all sorts of different makes and models. Includes a 1m universal cable with 8 different plugs to interchange as needed. Charges popular Smartphones, mobile phones and iPhone®/ iPod®, as well as some PDAs and MP3 players.

Product may vary to one shown

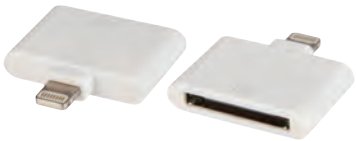
Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC7751	$16.90	$14.90	$13.40

Adaptors

LIGHTNING® PLUG TO 30 PIN APPLE® SOCKET ADAPTOR

A compact adaptor suitable for connecting an iPod®, iPhone® or iPad® using the Lightning™ connector to peripherals that use the older 30-pin connector, such as chargers and docks.

Note: This Adaptor is intended for charging and syncing only.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Adaptor	WC7726	$11.90	$10.70	$9.50

USB 2.0 TYPE-C TO MICRO B SOCKET ADAPTOR

A lot of recent computers only have USB Type-C sockets. Use this adapter for when you require a USB Micro B socket.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 2.0	PA0937	$9.50	$8.55	$7.60

USB 3.0 A PLUG TO TYPE-C SOCKET ADAPTOR

Converts a USB 3.0 Type-C socket to Type-A plug.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 3.0	PA0929	$14.90	$13.40	$11.90

USB 3.0 TYPE-C TO SOCKET ADAPTOR

Converts a standard USB 3.0 type A plug to Type-C.

Please Note: This unit only works for PC's or laptops, it is not suitable to use as USB On-The-Go (OTG) for smartphones and tablets.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 3.0	PA0935	$14.90	$13.40	$11.90

3.5MM AUDIO CONVERTERS

Connects to a spare USB port and provides a microphone input, and stereo headphone output - ideal for use with headsets. You don't have to use both interfaces, you can simply use it as a microphone input, or to connect headphones to a computer without a soundcard. Plug and play, compatible with PC and Mac® systems.

1 YEAR WARRANTY

SPECIFICATIONS	BOTH MODELS
Digital Interface	USB2.0
Analogue Interface	3.5mm Stereo Audio Output (Headphones), 3.5mm Audio Input (Mic)
Dimensions	27(W) x 45(D) x 12(H)mm (Excluding Cable and USB Plug)
Cable Length	170mm

Length		Cat.	Qty 1+	Qty 4+	Qty 10+
170mm	Type-A	XC4953	$28.90	$25.90	$22.90
170mm	Type-C	XC4955	$33.90	$29.90	$26.90

3.5MM 4 POLE ADAPTOR LEADS

Interchange between 3.5mm stereo and 4-pole plugs and sockets. Great for laptops, smartphones, and computers. 250mm long.

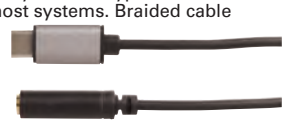
1 YEAR WARRANTY

length	Cat.	Qty 1+	Qty 4+	Qty 10+
Socket to 2 x 3.5mm Plugs	WA7022	$8.50	$7.60	$6.80
Plug to 2 x 3.5mm Sockets	WA7020	$9.50	$8.50	$7.50

USB TYPE-C TO 3.5MM AUDIO ADAPTOR

Quick and easy headphone connection for your USB Type-C enabled device. Plug and play connection with most systems. Braided cable and gold-plated 3.5mm socket for long-lasting performance.

- Braided cable
- Gold plated 3.5mm socket
- Plug-n-play
- Cable Length: 80mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7930	$22.90	$20.90	$17.90

USB Hubs

A range of USB 2.0 hubs for any budget or application. Powered by the USB port and all include a lead.

USB 2.0 4 PORT STAR HUB

Star shaped 4 port hub. Compact design to reduce desk clutter with power indication LED.

- Compatible with Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 50(W) x 50(L) x 15(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC4302	$17.90	$16.10	$14.30

USB 2.0 4 PORT SLIMLINE HUB

Extend the connectivity of your devices with this slimline hub. It's compliant with USB 2.0 specifications and will connect up to 4 x USB 2.0 devices. Additional power can be provided by using a Micro B USB cable to an additional socket on your computer or a USB power supply (not included).

1 YEAR WARRANTY

- Interface: USB 2.0 Type-A
- Transfer Speed: 30Mbps
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux
- Dimensions: 106(L) x 32(W) x 10(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC4958	$24.90	$22.40	$19.90

USB 2.0 10 PORT SLIMLINE HUB

This is a 10 port USB hub and charger in one, so you can transfer files, and charge devices at up to 1.5A from each port. This unit incorporates BC 1.2 technology which is able to detect your devices fastest charging speed for smartphones and tablets. It has a combined maximum power of 4A, but realistically not everything will be charging at the same time. Includes a 5VDC, 4A power supply.

SPECIFICATIONS	XC4959
Interface	USB 2.0 Type-A
Transfer Speed	Up to 30Mbps
Fast Charging	BC 1.2
Power	5VDC, 4A
Cable Length	1.2m
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
Dimensions	157(L) x 30(W) x 21(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC4959	$69.90	$62.90	$55.90

USB 3.0 4 PORT MINI HUB

This portable and easy to use 4 Port USB 3.0 hub offers 10 times faster transfer speed than USB 2.0 devices. Ideal for home, office and travel.

SPECIFICATIONS	XC4979
Interface	USB 3.0
Transfer Rate	Up to 80Mbps
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.0+, Linux
Dimensions	61(L) x 61(W) x 10(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 Compact	XC4979	$33.90	$29.90	$26.90

USB 3.0 TYPE-C 4 PORT HUB

Latest USB 3.0 Type-C connector for the new generation MacBook® and PCs. This 4 port hub expands your computer's connectivity and makes the most of the lightning fast speed. All 4 ports support USB 3.0 Super Speed and at the same time are downward compatible with USB 2.0. Also includes a USB 2.0 Micro B socket for additional power if required.

SPECIFICATIONS	XC4306
Interface	USB 3.0 Type-C
Transfer Rate	up to 80Mbps
Dimensions	68(H) x 64(W) x 13(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Type-C	XC4306	$54.90	$49.40	$43.90

USB Hubs CONTINUED

USB 3.0 7 PORT SLIMLINE HUB

Provides full USB 3.0 functionality to 7 ports, providing you with a convenient way to externaly connect all sorts of USB 3.0 devices, such as smartphones, cameras, printers, and more. It's slimline to conveniently fit into luggage or a laptop bag, and is backward compatible with older USB devices too. A mains adaptor provides up to 4A of power, to keep those power-hungry devices running without overloading your computer, up to 1.5A per port (4A total max). Plug and play.

- USB 3.0 with super speed transfer up to 5Gbps, and backward compatible with USB2.0
- Connect up to 7 USB devices
- Plug and play

1 YEAR WARRANTY

SPECIFICATIONS	XC4957
Power	5V @ 4A
Weight	95g
Cable Length	400mm
Dimensions	157(W) x 21(H) x 30(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4957	$79.90	$71.90	$63.90

USB 3.0 TYPE-C HUB AND CARD READER WITH POWER DELIVERY

Expand the connectivity of your computer with this card reader and hub combo with USB Type-C plug and power delivery socket. The unique power delivery system enables an existing Type-C power supply to charge your laptop while the hub is connected. It recognises and adjusts the device's specific voltage requirement including 5,12,14.5 and 20V to support all laptops. The USB Type-C adaptor provides USB 3.0 speeds and features 2 x USB 3.0 ports, SDXC and microSD card reader slots and a USB Type-C power delivery socket on the back. This is ideal for use with the MacBook® to maximise the connectivity of its singular USB Type-C input.

1 YEAR WARRANTY

SPECIFICATIONS	XC4308
Interface	USB 3.0 Type-C
Inputs	2 x USB 3.0 Type-A Ports, 1 x SDXC Slot, 1 x MicroSD Slot, 1 x USB 3.0 Type-C Power Delivery/Data Port
USB Transfer Rate	up to 80Mbps
Supported Card Size	up to 512GB SDXC, 256GB MicroSD
Power Delivery Profile	4 (20V, 3A Max)
Power Delivery Support	2.0 (V1.1)
Dimensions	81(L) x 52(W) x 15(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Type-C	XC4308	$99.90	$89.90	$79.90

Ted Flack likes to

think. possible.

"My mobile phone will have the capacity to 'meet' other people via their mobile phone either automatically or with one-on-one approval - swapping contact details, greetings and interests. Similarly, my phone will be capable of warning me of the approach of someone I don't wish to meet."

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Memory Card Readers

ALL-IN-1 USB 2.0 CARD READER

This USB card reader reads most memory cards in use today, including: SD, MicroSD, SD Ultra II, SD Extreme III, MMC, MMC II, MMC 4.0, RS-MMC, HS RSMMC, MMC Micro, M2, MS, MS Pro, MS Pro Duo, MS Extreme Pro, MS Extreme III Pro, MS Ultra II Pro, HS MS-MG Pro HS MS-MG Pro Duo, MS ROM, MS Select, XD, XD(M), XD(H), CF I & II, CF Ultra II, CF Extreme III, CF Extreme, HS CF & Micro-drive. USB cable included.

- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 68(L) x 40(W) x 13(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC4926	$24.90	$22.40	$19.90

USB 3.0 MULTI CARD READER WITH TYPE-C ADAPTOR

1 YEAR WARRANTY

Built into a strong Aluminium case, it will read CompactFlash, SD, and MicroSD memory cards. Fast USB 3.0 transfer means you're not waiting forever for files and photos to download, and a USB A to USB Type-C adaptor is provided for maximum compatibility. Also backwards compatible with USB 2.0 systems. No power required.

- Reads SD, SDHC, SDCV, microSD, CF cards
- USB 3.0 with speed transfer up to 5Gbps
- Backwards compatible to USB 2.0
- Plug and play

SPECIFICATIONS	XC4310
Interface	USB 3.0
Transfer Rate	Up to 80Mbps
Supported Card Size	Up to 512GB SDXC, 256GB microSD, 256GB CompactFlash
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.4+, Linux
Dimensions	69(L) x 63(W) x 14(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Type-A	XC4310	$39.90	$35.90	$31.90

OTG CARD READERS TO SUIT MOBILE DEVICES

NEW

A fast and easy way to add storage space to your OTG compatible Android or iOS devices, or to transfer files to a computer. At one end is a USB Type-A plug, which includes a slot to insert your favourite microSD card. The other end plugs into your device using either the MicroB / Lightning or USB Type-C options. The compact and stylish design has a smooth zinc alloy housing with flip-top protective ABS cap, and a handy mounting hole to attach to your lanyard or keychain. It is Plug and Play, and compatible with Windows, Mac and Linux.

- Three models to choose from with MicroB, Lightning or USB Type-C
- Supports microSD cards up to 256GB

1 YEAR WARRANTY

	Cat.	Qty 1+
MicroB	XC5623	$16.90
iOS® (Lightning)	XC5627	$28.90
USB Type-C	XC5621	$16.90

USB MICRO SD CARD READER

NEW

This sleek card reader is small enough to fit on your keychain or lanyard. Simply insert your microSD card (up to 256GB) then plug it into an available USB port to access the files. Made from aluminium alloy and includes a protective cover.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4740	$5.60	$5.00	$4.40

For next day delivery, or Click and Collect, see page 5

DVDs / Blu-Ray / CDs:

DVD 8.5GB DUAL LAYER 8X
Verbatim DataLifePlus (AZO)
XC4744

DVD-RW 4.7GB SINGLE 2X
DatalifePlus (SERL) DVD-RW4.7GB
XC4732

DVD+RW 4.7GB SINGLE 4X
Verbatim DataLifePlus (SERL) DVD+RW
XC4734

DVD+R 4.7GB 16X
Verbatim DataLifePlus (AZO) DVD+R
XC4733

DATALIFEPLUS (AZO) DVD-R 4.7GB 16X
XC4731

BLU-RAY DISCS 25GB SINGLE
BD-R: XC4747
BD-RE: XC4748

DVD+R DL 8.5GB 8X SPINDLE 10 PACK
XC4746

DVD 4.7GB INKJET PRINTABLE 50 SPINDLE 16X
DVD-R: XC4738
DVD+R: XC4745

Verbatim

LIFE
LIFETIME GUARANTEE

			Cat.	Qty 1+
DVD+RDL	8x		XC4744	$4.50
DVD-RW	2x		XC4732	$2.30
DVD+RW	4x		XC4734	$2.30
DVD+R	16x		XC4733	$1.25
DVD-R	16x		XC4731	$1.25
BD-R	4x		XC4747	$4.80
BD-RE	2x		XC4748	$9.90
DVD+R DL	8x	10 Pack	XC4746	$39.90
DVD-R	16x	50 Disks	XC4738	$37.90
DVD+R	16x	50 Disks	XC4745	$37.90

CDs

DATALIFE 80MIN 700MB CD-R JEWEL CASE SINGLES 52X
XC4707

DATALIFEPLUS CD-R 80MIN/700MB INKJET PRINTABLE 50 PACK SPINDLE 52X
XC4718

Verbatim

LIFE
LIFETIME GUARANTEE

XC4718

		Cat.	Qty 1+
CD-R	52x	XC4707	$1.65
CD-R	52x 50 Disks	XC4718	$29.90

DVD, Blu-Ray, CD Cases

SLIMLINE CD/DVD MAILING SLEEVE
Mail your precious CDs without fear of damage with this flexible clam style protector. The mailer has a clear window and centering spigot to securely hold the CD in place. Measures 125mm x just 4.5mm thick which won't crack and break like the average jewel case.
AR1480

AR1480

CD/DVD JEWEL CASES FOR SINGLE DISK
Replacements CD case for those that break or wear out.
AR1470

AR1470

		Cat.	Qty 1+	Qty 4+	Qty 10+
Mailing Sleeves	10 Pack	AR1480	$7.90	$7.10	$6.30
Jewel Cases	5 Pack	AR1470	$4.50	$4.05	$3.60

SD Cards & Flash Drives

CLASS 10 MICRO SD & SDHC CARDS WITH SD ADAPTOR
- Speed: Class 10 (UHS - 1)
- Includes SD adaptor for normal SD card slots

Call or see website for latest pricing

1 YEAR WARRANTY

		Cat.	Qty 1+
16GB	Class 10 (UHS-1)	XC4989	$22.90
32GB	Class 10 (UHS-1)	XC4992	$41.90
64GB	Class 10 (UHS-1)	XC4993	$79.90
128GB	Class 10 (UHS-1)	XC4977	$169.00

STORE`N`GO TRIPLE PACK USB 2.0 DRIVE 16GB

NEW

Pack of 3 colourful Verbatim 16GB USB 2.0 USB Drives for your data storage needs. The push-and-pull sliding feature protects the USB connector when not in use, and saves the need for a separate cap, which can easily be lost. Lightweight, compact and stylish pinstripe design. There is also a handy mounting hole to attach to your lanyard or keychain.
- Colourful, lightweight and compact
- Retractable USB connector (no lost cap)

LIFE
LIFETIME GUARANTEE

Verbatim

	Cat.	Qty 1+
3 x 16GB	XC5613	$28.90

VERBATIM USB 3.0 FLASH DRIVES

NEW

The all new Store 'n' Go V3 USB Drive uses USB 3.0 technology for ultra fast data transfer! It's up to 10x faster than USB 2.0, making it ideal for transferring multiple files at once and bulk transfer of information without errors. The retractable design keeps the connector and data protected without the worry of losing a cap.
- Available in a variety of trendy colors
- Lifetime limited warranty
- Password protection software available for download (Windows only)

LIFE
LIFETIME GUARANTEE

Verbatim

	Cat.	Qty 1+
16GB	XC5642	$13.90
32GB	XC5643	$17.90
64GB	XC5644	$39.90
128GB	XC5625	$129.00

Cleaning Systems

CD/VCD/DVD LENS CLEANER
If you experience jumping, loss of quality or disc failure, then it's probably because your lens are dirty. This easy to use laser lens cleaner not only cleans your CD or DVD equipment, but it also shows a short animation while you wait. Supplied in a jewel case.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR1416	$15.90	$14.30	$12.70

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Hard Drive Power Cables

SERIAL ATA / SATA / ESATA POWER CABLES

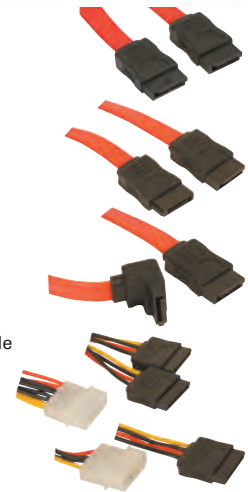
A range of SATA and eSATA data/power cables for use with personal computers and external serial ATA devices.

4 PIN POWER SPLITTER CABLE

Standard 4 pin power splitter for PC

- 1 x HDD plug to 2 x HDD sockets

CAT. PL0750



SERIAL ATA LEAD 7 PIN PLUG

Transfer data between your Serial ATA hard drive and serial ATA interface, at rates up to 150Mbps. Thinner, smaller and more versatile than the Parallel ATA Standard.

Length: 500mm CAT. PL0978

7 PIN TO 7 PIN SATA

- Colour: Red
- Length: 1 metre CAT. PL0980

STRAIGHT TO RIGHT ANGLE SATA

- Colour: Red
- Length: 1 metre CAT. PL0981

HDD POWER TO 2 X SATA

- Power two SATA devices from one 4-pin male Molex connector
- Length: 200mm CAT. PL0759

HDD POWER TO 1 X SATA

- Power a SATA devices from a 4-pin male Molex connector
- Length: 200mm CAT. PL0758

	Cat.	Qty 1+	Qty 4+	Qty 10+
HDD power to 2 HDD Sockets	PL0750	$6.90	$6.20	$5.50
SATA to SATA	PL0978	$7.90	$7.20	$6.50
SATA to SATA	PL0980	$9.90	$8.70	$7.70
SATA RA to SATA	PL0981	$9.90	$8.70	$7.70
HDD power to 2 x SATA power	PL0759	$9.90	$8.70	$7.70
HDD Power to SATA	PL0758	$7.90	$7.20	$6.50

Notebook Hard Drive

1TB 2.5" INTERNAL NOTEBOOK HARD DRIVE

A 5200RPM 1TB internal hard drive ideal for laptops, network attached stored devices, game consoles or, media players. It uses 500GB per platter technology and has superior energy efficiency as well as improved acoustic performance at a maximum of 19dB in idle mode and 24dB during seek operations. SATA3

p.271 2TB suveillance HDD

1 YEAR WARRANTY

SPECIFICATIONS	XC5680	POWER REQUIREMENTS	
Rotational Speed	5200RPM	Voltage	5V
Transfer Rate To Host	3Gbps	Spin up (start) Power	4.5 watts
Idle Acoustics	19dB	Seek Power	1.85 watts
Seek Acoustics	24dB	Read/Write Power	1.5 watts
Buffer Cache	8MB	Low Power Idle	0.55 watts
Dimensions	69.85(W) x 100(D) x 9.5(H)mm	Standby Power	0.18 watts
Weight	112g	Sleep Power	0.15 watts

	Cat.	Qty 1+
1TB 2.5" SATA	XC5680	$119.00

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Laptop Cooling - USB Powered

DUAL FAN NOTEBOOK COOLING FAN

Prevents your notebook from overheating on your lap or desk. Features a double 140mm fan and 2 USB ports. It is super silent and you will hardly notice it is there. Incredibly simple to use, just plug into your USB port and away you go!

Also includes a push button on and off switch.

- Unique non slip design
- Rated voltage: 5VDC
- Dimensions: 365(L) x 295(W) x 40(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Dual Fans	XC5211	$21.90	$19.70	$17.50

External HDD Enclosures

2.5" USB 3.0 SATA HDD ENCLOSURE

Protect and transport your valuable data with this hard disk drive (HDD) case. The aluminium case accommodates a standard 2.5'" HDD (up to 2TB capacity) and features a micro-B USB 3.0 socket. Experience ultra fast data transfer speeds up to 10 times faster than USB 2.0. The blue LED on the rear of the unit indicates when data is transferring. Super fast and easy installation - simply open the cover, connect the drive and secure the cover back in place. Also includes a lead to connect the drive to your computer via the USB port. A good solution for transferring data between multiple users or devices quickly.

- Interface: USB 3.0
- HDD Size: up to 4TB Hard Drive
- Transfer Rate: up to 80Mbps
- Dimensions: 130(L) x 80(W) x 13(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC4686	$36.90	$33.20	$29.50

3.5" USB 2.0 EXTERNAL HDD CASE

Accommodates a 3.5" SATA drive up to 6TB in storage capacity. Lightweight aluminium case for increased portability.

- USB 2.0 transfer rate up to 480Mbps
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 183(D) x 117(W) x 31(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB2.0	XC4669	$55.90	$50.30	$44.70

3.5" USB 3.0 SATA HDD ENCLOSURE

Backup your data faster and carry it in style with this slick, black external HDD enclosure. Wait less do more, a USB 3.0 connection transfers data between computer and device up to ten times faster than a USB 2.0 connection. SATA I/II/III support means you can take advantage of the latest HDDs on the market or make use of your old, disused SATA HDDs. Installation is easy, just two screws to remove the back panel and no cables inside. Supplied with a desk stand and power supply.

- Plug 'n' Play
- Hot swappable
- For 3.5" HDDs only (not included)
- Supports SATA I/II/III
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC4667	$74.90	$67.40	$59.90

Graham A likes to

think. possible.

"Mobile phones and their connectivity are amazing - communication PLUS (near) instant access to information makes them extremely useful, but the interface for keying and reading information is a bit slow. Natural speaking interfaces will be available and effective in 5-10 years. Hopefully neural interfaces soon after."

For next day delivery, or Click and Collect, see page 5

HDD Apaptors

SATA/IDE TO USB 2.0 HARD DRIVE ADAPTOR

Perfect tool to backup, or transfer large amount of data from one drive to another. Manual hard drive replacement is often labourious and time consuming. This IDE / SATA to USB 2.0 adaptor makes the job whole lot easier and faster with this set of cables designed to connect your SATA or IDE drive external through a USB 2.0 adaptor. It supports 2.5", 3.5" SATA and IDE devices and operates with one IDE and one SATA HDD simultaneously.

Package includes:

1 x USB 2.0 to IDE+SATA converter
1 x USB 2.0 cable
1 x 4Pin Power cable
1 x 12V/2A power adaptor

- USB version 2.0 compliant
- SATA II version 1.0a compliant
- USB Mass Storage Class Bulk-Only Transport Specification Compliant
- Dual-Head IDE Connector (40pin and 44pin) plus one SATA II connector
- HDD Support:, IDE 2.5" HDD, IDE 3.5" HDD, SATA 2.5" HDD, SATA 3.5" HDD, IDE 5.25" CD/DVD Drives
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- USB cable length: 800mm
- Power Adaptor cable length: 1.5m
- Dimensions: 85(L) x 65(W) x 20(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC4150	$55.90	$50.30	$44.70

SATA 2.5" HDD TO USB 3.0 CASE

NEW

If you have accumulated a number of 2.5" SATA hard drives over the years and want a simple way to access them temporarily this adaptor is the perfect tool. It is USB 3.0 for up to 5Gbps transfer speed but is also backward compatible with USB 2.0 for older systems. The case not only protects your HDD but turns your HDD into an easy, convenient backup solution. Powered by USB.

- Transfer Rate: USB 3.0(Max 5Gbps), USB 2.0 (Max. 480Mbps)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4152	$33.90	$29.90	$26.90

Docking Stations

USB 3.0 SATA HDD DOCKING STATION

NEW

This device allows you to connect a SATA 3.5" or 2.5" hard drive into a USB port. Great for any computer, but even better for a notebook without any physical means to install one. It creates a plug and play compatible method to access any compatible hard drive. USB 3.0 ready for fast data transfer data but also backward compatible with USB 2.0 for older systems.

1 YEAR WARRANTY

SPECIFICATIONS	XC4687
Transfer Rate	USB 3.0(Max 5Gbps), USB 2.0 (Max. 480Mbps)
Power	12V, 2.5A
Compatibility	Windows 2000/XP/Vista/7/8/8.1/10+. MacOS® 10+

	Cat.	Qty 1+	Qty 4+	Qty 10+
Suits 2.5" or 3.5" HDD	XC4687	$49.90	$44.90	$39.90

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USB 3.0 SATA HDD DUAL DOCKING STATION

NEW

Seamless cloning from one drive to another, at the touch of a button! It even includes a cloning progress-bar for visual status progress status. Provides two SATA docking ports that can accommodate either two 3.5 or 2.5 inch SATA drives or one of each depending on your application. It is USB 3.0 ready so all your disk operations will perform up to ten times faster than on older USB 2.0 docks. High speeds and the convenience of dual docks means less time backing up.

- Dual docks
- USB 3.0 (USB 2.0 compatible)
- HDD Clone

1 YEAR WARRANTY

SPECIFICATIONS	BOTH
Transfer Rate	USB 3.0(Max 5Gbps), USB 2.0 (Max. 480Mbps)
Power	12V, 2.5A
Compatibility	Windows 2000/XP/Vista/7/8/8.1/10+. MacOS® 9.1/10+

	Cat.	Qty 1+	Qty 4+	Qty 10+
Suits 2.5" or 3.5" HDDs	XC4689	$69.90	$62.90	$55.90

USB 3.1 TYPE-C SATA HDD DOCKING STATION

1 YEAR WARRANTY

Quickly connect an internal SATA drive to any USB Type-C equipped notebook or computer. The drive slot accepts 2.5" and 3.5'" drives. The ultra-high speed USB3.1 provides up to 430Mbps transfer rates, so even your high speed drives can be used effectively. Plug and play operation, suitable for use on Windows or Mac™. Backwards compatible (USB 3.0, 2.0, 1.1).

SPECIFICATIONS	XC4672
Interface	USB 3.1 Type-C
Transfer Rate	Up to 430Mbps
SATA	6G
HDD Size	3.5'" - Up to 10TB, 2.5'" - Up to 4TB
Dimensions	138(W) x 78(D) x 65(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.1 Type-C	XC4672	$64.90	$57.90	$51.90

USB 3.0 2 BAY RAID HDD ENCLOSURE

NEW

In a digital world, it is important that you have your precious files backed up. If the hard drive in your computer fails or your computer is stolen, you will be thankful that your photos, documents and other important files are backed up to this RAID system. The RAID (Redundant Array of Independent Disks) feature allows you to have files stored on two hard drives, either RAID 0 (Stripping) mode for best performance or RAID 1 (Mirroring) for protection against HDD failure. You can also set to JBOD mode where each HDD is independent or Spanning mode that combines both HDD into one larger volume. Mounting hardware is included to mount your HDDs into the removable trays, and a mains power supply and USB 3.0 cable is supplied. A user guide is included to step you through the setup.

SPECIFICATIONS	XC4688
Interface	USB 3.0 Type-A (Backward Compatible to USB 2.0)
RAID Level	RAID 0, RAID 1, JBOD, Spanning
Max. Tansfer Rate	5Gbps
Enclosure	Extruded Aluminium
Power	12V 3A mains adaptor supplied
Weight	1.87kg (without HDDs)
Dimensions	215(L) x 135(W) x 114(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Suits 2.5" or 3.5" HDDs	XC4688	$199.00	$179.90	$158.90

Uniden® cordless phones

We have decided to only stock one brand of cordless telephones, as the higher quality is outstanding. The UNIDEN product simply has too many fantastic features to list, but we would be remiss if we did not mention these: A Bluetooth® mobile link to connect your cordless to up to 4 (yes, FOUR) mobile phones to your system when the mobile phones are in your home. A 6000 number phonebook (up to 1500 entries per phone) stored in the UNIDEN console and a USB charge port for your mobile. All-in-all, a fantastic addition to the Jaycar 2019 product range.

UNIDEN CORDLESS TELEPHONE

NEW

The Uniden DECT 1015 digital phone is ideally suited to high density living environments and has a vast array of features suitable for any home. It has enhanced talking range, unique styling and is wireless (WiFi) network friendly. The DECT 1015 has a unique wall mount design which has been designed specifically with wall mounting in mind. Like never before the base unit sits fully flush against the wall, providing a streamlined and contemporary look. Uniden's quality and performance make the DECT 1015 an outstanding and reliable digital choice.

- Designed and engineered in Japan
- Cutting edge DECT6.0 technology
- Eco friendly mode
- Green backlit LCD display
- 3 line full dot matrix LCD display
- Wireless (WiFi) network friendly
- Extra loud handset volume control
- Hearing aid compatible
- Visual message waiting indicator (VMWI)
- 30 phonebook memories and 30 caller ID memories
- Alphabetical search and dial
- POP ID – caller name identification
- Up to 8 hours talk time
- Up to 7 days standby time
- Wall or desk mountable

1 YEAR WARRANTY

	Cat.	Qty 1+
	YT9043	$44.90

UNIDEN HEARING IMPAIRED CORDLESS TELEPHONE

The Uniden SS E45 is equipped with an integrated digital answering machine with slow playback, ensuring you never miss that important call. The XDECT® digital cordless phones offer extended digital coverage by utilising a diversity antenna system for optimal reception and clarity – by mitigating multi-path errors.

It also features a high gain antenna for greater range and to eliminate drop our areas in your home. The SSE45 is equipped with text to speech (TTS) technology. The extra loud 50dB volume ringer & large screen buttons are ideal for hearing loss / elderly people, visual problems / low vision, noisy homes or workplaces.

- Large display screen and buttons
- Integrated digital answering machine with slow playback function
- Extra loud 50dB volume
- Slow talk mode for real time voice
- Help call button
- Hearing aid compatible (T-Coil)
- 7 day battery standby time
- Up to 10 hours talk time
- 50 caller ID - memories and 200 phonebook entries on each handset
- Text to speech (TTS) technology

1 YEAR WARRANTY

	Cat.	Qty 1+
1 Handset	YT9047	$119.00
2 Handset	YT9041	$199.00

UNIDEN CORDLESS TELEPHONE WITH ANSWERING MACHINE

Uniden's DECT 1735 + 1 uses the wireless friendly DECT technology and has an integrated digital answering machine with message counter so you don't miss those important phone calls.

These phones are ideally suited to high density living environments and have an excellent array of features suitable for any home. They have great talking range, unique styling, 3 line backlit display LCD display and are wireless (Wi-Fi) network friendly. The digital duplex speakerphone on the handset makes handsfree communication a breeze.

- Integrated digital answering machine with 14 minutes answering machine recording time
- POP ID - caller name identification
- 70 phonebook memories and 30 caller ID memories
- Up to 10 hours talk time
- Up to 7 days standby time
- Choice of different ring tones
- Maxi sound – extra loud handset volume control
- Wall and desk mountable
- NBN compatible
- Power failure backup
- Connections for up to 6 handsets

1 YEAR WARRANTY

	Cat.	Qty 1+
1 Handset **NEW**	YT9045	$69.90
2 Handset	YT9037	$99.90
3 Handset	YT9039	$149.00

UNIDEN CORDLESS TELEPHONE WITH ANSWERING MACHINE AND BLUETOOTH

The Uniden XDECT® 8355 features Bluetooth connectivity and a USB charging port. This new series from Uniden now enables you to dial and receive mobile calls on the cordless handset for convenience and versatility as well as charging your mobile phone simultaneously. With its stylish slim design this series is the perfect marriage between "Smartphone" & "Home phone".

- Integrated digital answering machine with 30 minutes record time
- TTS technology – caller announce caller ID* from base
- Do not disturb function
- Call block pro
- Intercom / announce call transfer
- Call conferencing
- Hearing aid compatible [T-Coil]
- Visual message waiting call indicator
- Up to 10 day standby time
- Up to 10 hours talk time

1 YEAR WARRANTY

	Cat.	Qty 1+
Two Handset	YT9051	$249.00
Three handset	YT9053	$319.00

For next day delivery, or Click and Collect, see page 5

Batteries

PANASONIC CORDLESS PHONE BATTERIES

Replacement pair of AAA NiMH batteries for Panasonic cordless phones.

- Capacity: 650mAh
- Supplied fully charged
- Retains up to 80% capacity for 12 months
- Recharge up to 1500 times

	Cat.	Qty 1+	Qty 8+	Qty 15+
AAA 2 Pack	SB2934	$10.90	$9.90	$8.90

CORDLESS PHONE BATTERY FOR UNIDEN

2.4V Ni-MH 650mAH CTB96 - 65AAAH2BMJ

Suits Uniden models: 90xx series, XDECT7005WP, 7015, 7055, including our current Uniden models.

Also suits telstra 6010, 9200,9200a, V850a, V850q, V950a

	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB1654	$23.90	$21.50	$19.10

Telephone Accessories

TELEPHONE EXTENSION RINGER

This can be used to increase the volume of your existing landline phone or to relocate the ringer into a different room or location. It is ideal for industrial environments where background noise can mask the sound of your ringing telephone. Includes mounting screws.

- Wall mountable with On/Off switch
- Multiple tone and pitch selection
- Volume control
- Multiple input types
- 8-12 ohm output for horn speaker
- No battery or external power required
- Dimensions: 155(H) x 90(W) x 30(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 20+
Telephone Extension Ringer	YT6068	$33.90	$29.90	$26.90

TELEPHONE ISOLATION ON HOLD KIT

A simple and affordable telephone line isolation unit that can be used as the basis of a telephone music on-hold adaptor. Suitable for even the smallest business, use it to customise the on-hold music that your clients listen to. Accepts input via 3.5mm headphone socket, so it will work fine with any MP3 player. Also includes an RCA adaptor for use with other sound sources.

- Dimensions: 75(H) x 28(W) x 219(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 20+
Telephone Isolation On Hold Kit	YT6070	$33.90	$29.90	$26.90

Peter Munt likes to

think. possible.

"3D Printers in 5 years time will be 100x faster, cheaper and be able to manufacture more components - this will be the cusp of the next robotics boom were currently offshored manufacture will be done locally."

Radar Detector

UNIDEN DFR3NZ SPEED RADAR AND LASER DETECTOR

NEW

This long-range radar detector has 360° laser detection and is tuned for NZ Redflex mobile speed cameras. It has an easy to read dimmable LED display and audible alerts with adjustable volume and mute. Designed to recognise radar guns on the X, K and Ka bands, and laser between 800-1100nm. Features three modes for city or rural driving, and signal strength indicator. Supplied with a windscreen suction mount and power lead that connects to your 12V cigarette lighter socket.

- 360° laser/I2/I3 radar detector
- X, K, Ka SuperWideband Detection
- X Band Delete On/Off
- Redflex Digital Speed Camera Detection
- VG2 Undetectable
- City/Highway Modes

DISCLAIMER: Radar detectors are illegal in some states. Some states prohibit mounting any object on your windshield. Check the applicable law in your state and any state in which you use the product to verify that using and mounting a radar detector is legal. Uniden radar detectors are not manufactured and/or sold with the intent to be used for illegal purposes. Drive safely and exercise caution while using this product. Do not change settings of the product while driving. Uniden expects consumer's use of these products to be in compliance with all local, state and federal law. Uniden expressly disclaims any liability arising out of or related to your use of this product.

	Cat.	Qty 1+
	LA9050	$289.00

tech talk — What Is ADSL & VDSL?

ADSL stands for Asymmetric Digital Subscriber Line. It is a technology that allows data to be sent at high speeds across copper phone lines rather than conventional voice-band modems. ADSL2+ provides double the downstream rate compared to ADSL, from 12Mbps to 24Mbps. Data speed is dependent on the distance between the user's modem to the DSLAM (Digital Subscriber Line Access Multiplexer), usually located at the local telecom exchange. VDSL stands for Very-high-bit-rate Digital Subscriber Line, which provides a faster data transmission than ADSL. VDSL is able to support applications like HDTV and VOIP (Voice over IP), and able to downstream data up to 100Mbps (or 300Mbps using VDSL VPlus).

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Phone Accessories

TELEPHONE RINGER/FLASHER

Never miss a phone call again with this visual indicator. Doubles as an extension bell ringer.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7131	$34.90	$31.40	$27.90

CAT5 UTP SPLITTER

Cat5 splitters enable two different devices to share the same Cat5 cable. They are usually used in pairs, one at each outlet.

Note: you can't use this device to run two computers from one network port: you'll need a network switch for that. This product is unsuitable for gigabit networks.

Cat.	Qty 1+	Qty 4+	Qty 10+
YT6090	$18.90	$16.90	$14.90

ADSL SPLITTER FILTER

Provides a connection to your standard phone equipment and a connection outlet for your ADSL modem.

Cat.	Qty 1+	Qty 4+	Qty 10+
YT7152	$16.90	$14.90	$13.30

Crimping Tools

PUNCH DOWN TOOL FOR NZ WALL SOCKETS

Suits NZ wall sockets only.

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7134	$4.90	$4.40	$3.90

PHONE CRIMP TOOL - DOMESTIC USE

Designed for occasional use and will crimp standard New Zealand telephone plugs with ease.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1937	$29.90	$26.90	$23.70

PRO GRADE TELEPHONE CRIMP TOOL

Multi-function crimp tool designed for everyday pro use. Metal construction, nonslip grip & easy crimp action. Crimps standard NZ modular phone plugs, 6P6C modular plugs (as used on ADSL modems), with built in wire cutters & strippers.

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1839	$99.90	$89.90	$79.90

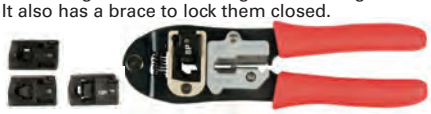
6P/8P CRIMP TOOL

This tool will crimp the following plugs: 6P2C, 6P4C - RJ11, 6P6C - RJ12, 8P - RJ45.
• It also cuts and strips the cable

Cat.	Qty 1+	Qty 3+	Qty 6+
TH1935	$24.90	$22.40	$19.90

4P/6P/8P/10P CRIMP TOOL

Cuts, strips & crimps flat telephone cable, or Cat5e type cable also. Constructed from high quality carbon steel,it features interchangeable dies and ergonomic design. It also has a brace to lock them closed.



Cat.	Qty 1+	Qty 3+	Qty 6+
TH1936	$56.90	$50.90	$44.90

Telephone Connectors

NZ LINE PLUG

Make your own leads or replace worn plugs.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7110	$3.50	$3.15	$2.80

NZ DOUBLE ADAPTOR

Allows 2 devices to be plugged into the one socket.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7116	$8.90	$8.00	$7.10

BT TRIPLE ADAPTOR

Adapts a BT plug to 3 socket. Allows connection of 3 products to the 1 outlet.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7117	$11.90	$10.90	$9.90

NZ PLUG TO US SOCKET

Use to convert phone leads that have US style plugs on them.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7112	$7.90	$7.10	$6.30

NZ SOCKET TO SOCKET

Join two NZ phone plugs together. Can be surface mounted.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7114	$8.90	$8.00	$7.10

BT TO MODULAR ADAPTOR

Adapts an RJ12 plug to a BT plug for use in NZ.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7113	$9.90	$8.90	$7.90

BT TO RJ45 ETHERNET PLUG ADAPTOR

Inline adaptor to convert a BT plug to a standard RJ45 plug.
• Dimensions: 22(W) x 25(H) x 60(D) mm (Excluding Cable)

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7115	$11.90	$10.40	$9.40

NZ TO RJ11 3M EXTENSION LEAD

Phone extension lead for most telephone products. 3 metre length.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7122	$14.90	$13.90	$11.90

3M LEAD NZ PLUG TO NZ SOCKET

3 metre length with standard NZ plug and socket on either end. White in colour.
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7124	$14.90	$13.90	$11.90

BT WALL SOCKET 2 WIRE

NZ telephone wall plate BT socket with 2 wire connection. With dust cover.
• Dimensions: 69 x 69 x 30(D)mm
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7132	$19.90	$17.90	$15.90

BT WALL SOCKET - 10M EXT CABLE INSTALL KIT

NZ telephone wall plate with 10m - 2 wire extension cable, punch down tool and cable clamps for permanently installing a telephone outlet.
•Wallplate size: 69 x 69 x 30(D)mm
•Telepermit approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT7136	$34.90	$30.90	$27.90

MODULAR DOUBLE ADAPTOR - RJ12

Connect two telephones to the one socket.
• 6P/4C

ACMA Approved
RJ12 6P/4C
LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6056	$6.90	$6.20	$5.50

MODULAR DOUBLE ADAPTOR - RJ45

RJ45 8P/8C plug to two sockets. Wired straight through - pin #1 to pin #1.

ACMA Approved
RJ45 8P/8C
LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6082	$13.90	$12.90	$10.90

MODULAR TRIPLE ADAPTOR RJ12 6P/4C

RJ12 plug to 3 sockets.

ACMA Approved
RJ12 6P/4C
LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6057	$14.90	$13.90	$11.90

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Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just one hour!

For next day delivery, or Click and Collect, see page 5

RJ11/12 Modular

50µ" GOLD CONTACT

4 PIN FOR STRANDED CABLE
4/4 - RJ11
6 PIN FOR STRANDED CABLE
6/6 - RJ12

RJ11	Cat.	Qty 1+	Qty 5+	Qty 20+
Pkt 5	PP1430	$2.90	$2.60	$2.30
Pkt 50	PP1431	$24.90	$22.40	$19.90
RJ12		Qty 1+	Qty 5+	Qty 20+
Pkt 5	PP1432	$3.90	$3.10	$2.70
Pkt 50	PP1433	$28.90	$25.90	$22.70

AUSTRALIAN / NZ FLUSH WALLPLATES

Our premium Australian / NZ flush plates not only accept our Cat 5e jacks shown below, they are also compatible with many other standard Australian mechanisms and jacks. The 2 piece design has a separate back plate and cover which is easily removed for painting.

- Fits standard Australian/ NZ electrical switch plate installation hardware and screw centres
- Supplied unloaded without jacks (see cat. YN8036)
- Dimensions 116(W) x 75(H) x 13(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN8015	$7.90	$7.20	$6.50
Double	YN8016	$7.90	$7.20	$6.50

KEYSTONE WALLPLATES

Flush type wall plates to accept our standard keystone 110 jacks. Fits standard Australian electrical switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.

- Supplied unloaded without keystone jacks
- Dimensions: 70(W) x 114(H) x 6(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Single White	YN8050	$2.00	$1.80	$1.60
Double White	YN8052	$2.00	$1.80	$1.60
Triple White	YN8054	$2.00	$1.80	$1.60
Quad White	YN8056	$2.00	$1.80	$1.60
6 Way White	YN8058	$2.00	$1.80	$1.60

RJ11 SOCKET 6P/4C KEYSTONE JACK

RJ11 Socket 6P/4C Keystone Jack.

	Cat.	Qty 1+	Qty 5+	Qty 10+
	YN8026	$4.50	$4.05	$3.60

RJ45 Modular

MODULAR PLUGS

50µ" Gold Contact
8/8 - RJ45
- Not ACMA approved

Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP1436	$9.90	$8.50	$7.50

SCREENED 8 PIN FOR STRANDED CABLE

8P/8C with full screening and round cable entry for connection to STP cable.

Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP1437	$17.90	$15.90	$14.30

RJ45 MODULAR PLUGS FOR STRANDED/ SOLID CAT 6

RJ45 Modular Plugs for Stranded and Solid Cat 6 Cable.
- Pack of 10

RJ45 stranded		Qty 1+	Qty 5+	Qty 20+
Pkt 10	PP1447	$16.90	$14.90	$13.30

8 PIN FOR FLAT STRANDED CABLE

8/8 - RJ45
PIN FOR ROUND SOLID CORE CABLE
8/8 RJ45 Suits Cat5e

RJ45 stranded		Qty 1+	Qty 5+	Qty 20+
Pkt 5	PP1434	$7.90	$7.20	$6.50
RJ45 stranded				
Pkt 50	PP1435	$36.90	$33.20	$29.50
RJ45 solid				
Pkt 6	PP1438	$8.90	$7.90	$6.90
RJ45 SOLID				
Pkt 50	PP1439	$41.90	$37.90	$33.40

RJ45 BOOTS

A packet of boots to suit RJ45 8/8 plugs.

pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
4	PM1441	$5.90	$5.20	$4.90
pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
50 Blue	PM1442	$19.90	$17.90	$15.90

RJ45 IP67 RATED CONNECTORS

These RJ45 connectors are designed for use in harsh environments. Rated to IP67 dust and water tight making them handy for control and communications applications located outdoors or in industry workshops.

RUGGED RJ45 PLUG - IP67 RATED
PP1453

RUGGED RJ45 SOCKET - IP67 RATED
PS1451
WATERPROOF CAP
Waterproof cap to suit PS1451 IP67 RJ45 socket.
PP1455

	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug	PP1453	$19.90	$17.90	$15.90
Socket	PS1451	$24.90	$22.40	$19.90
Cap	PP1455	$11.90	$10.70	$9.50

KEYSTONE SOCKET JACKS

RJ45 SOCKET CAT5E KEYSTONE JACK
YN8028
RJ45 SOCKET CAT6 KEYSTONE JACK
YN8029

	Cat.	Qty 1+	Qty 5+	Qty 10+
Cat5e	YN8028	$4.50	$4.05	$3.60
Cat6	YN8029	$4.50	$4.05	$3.60

RJ45 CAT6 KEYSTONE SOCKET - WHITE

RJ45 Cat 6 Keystone Socket - white

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8033	$15.90	$14.30	$12.70

RJ12 IDC SOCKET FOR FLUSH PLATES

Voice grade RJ12 6P/4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.

	Cat.	Qty 1+	Qty 5+	Qty 20+
	YN8035	$11.90	$10.70	$9.50

CAT5E IDC JACK TO SUIT AUST / NZ STYLE FLUSH PLATES

Our premium Cat5e IDC data jack is designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.

- Rear terminated with 110 or Krone impact tool
- T568A & T568B colour coding for easy installation
- ACMA Approved
- Suits our YN8015/16/17 wallplates

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8036	$11.90	$10.70	$9.50

RJ45 CAT5E IDC JACK - PK 6

This pack of 6 Cat5e jacks are designed to suit standard Australian & New Zealand wall plates.
- Rear terminated with 110 or Krone impact tool
- T568A & T568B colour coding for easy installation
- ACMA approved
- Suits YN8015/6/7 wall plates

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8039	$48.90	$44.00	$39.10

RJ45 CAT6 TOOL-LESS KEYSTONE JACK

This Cat6 keystone jack allows you to connect ethernet cable without the need of crimping tools.
- Installation is quick and easy

Note: Product may vary to one shown.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8038	$20.90	$18.80	$16.70

KEYSTONE SURFACE BOX

Side entry surface mount boxes to accept our standard keystone 110 jacks.
- Snap-on cover for easy installation & access to wiring.
- Single and duplex versions available
- Double sided tape for easy installation
- Supplied unloaded without keystone jacks
- Colour is white

WxHx-D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Single 30x60x26	YN8022	$7.90	$7.20	$6.50
Double 55x60x26	YN8024	$7.90	$7.20	$6.50

110 KEYSTONE JACK

Suitable for use with our keystone wall plates and keystone surface boxes.

- For termination with ISBY impact tool and has combined 568A and T568B colour coding for easy installation
- White in colour

	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN8030	$11.90	$10.70	$9.50

RJ11/12 Modular CONTINUED

CAT5E COUPLER 8P/8C

Enables pre-made cables to be used. Simply clip into a wall plate and plug cables in on both sides.

ACMA Approved

Cat.	Qty 1+	Qty 4+	Qty 10+
YN8032	$24.90	$22.40	$19.90

CAT5E COUPLER STRAIGHT 8P8C

Use this jack connector to join two fabricated Cat5e cables.

- Straight through

ACMA Approved

Cat.	Qty 1+	Qty 4+	Qty 10+
YN8034	$21.90	$19.70	$17.30

CAT6 INLINE COUPLER 8P8C

Use this coupler to join two fabricated Cat6 cables.

- Wired straight through

Cat.	Qty 1+	Qty 4+	Qty 10+
YN8037	$24.90	$22.40	$19.90

RJ12 COUPLER 6P/4C

Connect two US plugs together.

ACMA Approved

RJ12 6P/4C

LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6060	$6.90	$6.20	$5.50

RJ45 COUPLER 8P/8C

RJ45 8P/8C socket to socket. Wired straight through. Pin #1 to pin #1.

Note: Not suitable for ethernet connections.

ACMA Approved

LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6080	$5.60	$5.00	$4.45

RJ45 COUPLER 8P8C CROSSOVER

RJ45 8P/8C socket to socket. Wired in crossover format. Pin #1 to pin #8.

Note: Not suitable for ethernet connections.

RJ45 8P/8C

ACMA Approved

LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6081	$6.90	$6.20	$5.50

US MODULAR SKIRTING MOUNT WALL SOCKET RJ12 6P/4C

US type wall socket. Suitable for all telephones.

RJ12 6P/4C

ACMA Approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6058	$6.90	$6.20	$5.50

DB9 SOCKET TO RJ45 8P/8C SOCKET ADAPTOR

Socket adaptor. Can be wired without soldering.

- Unwired

ACMA Approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PA0906	$7.90	$7.20	$6.50

DB25 PLUG TO RJ45 8P/8C SOCKET ADAPTOR

Unwired. Can be wired without soldering.

RJ45 8P/8C

ACMA Approved

Cat.	Qty 1+	Qty 4+	Qty 10+
PA0904	$9.90	$8.50	$7.50

WALL SOCKET - 6P/4C

Square wall socket to suit RJ12 6P/4C plugs. Screw terminals for connection.

- 44 x 44 x 24(D)mm

RJ12 6P/4C

ACMA Approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6059	$6.90	$6.20	$5.50

RJ45 SIDE ENTRY SURFACE MOUNT - 8P/8C

Side entry surface mount voice grade US modular socket. Snap-on cover provides access to screw terminals for connection of wires. Double sided tape included for easy installation.

- 50(W) x 57(H) x 20(D)mm

ACMA Approved

RJ45 8P/8C

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6064	$6.90	$6.20	$5.50

RJ45 TO RJ12 REDUCERS

Reduce a RJ45 size socket to a RJ12 size. This allows RJ45 sockets to accept either RJ12 or RJ45 plugs. Pack of 5.

Cat.	Qty 1+	Qty 5+	Qty 20+
Pkt 5 YT6055	$5.60	$5.00	$4.45

WALL PHONE BRACKET RJ12 6P/4C

Wall phone bracket designed to allow easy installation of telephones which have standard US modular wall mountings. The line is connected from bracket to phone by a 30mm modular cord.

- Fits standard Australian electrical switch plate installation hardware
- 76W x 119H x 9Dmm

RJ12 6P/4C

ACMA Approved

Cat.	Qty 1+	Qty 5+	Qty 20+
YT6062	$8.90	$8.00	$7.10

EXTENSION CABLES RJ12 6P/4C

RJ12 6P/4C US Modular Plugs US plug to US plug.

- Colour Ivory

ACMA Approved

RJ12 6P/4C RJ12 6P/4C

LIFE LIFETIME GUARANTEE

	Cat.	Qty 1+	Qty 5+	Qty 20+
300mm	YT6044	$4.50	$4.05	$3.60
1.0m	YT6042	$5.60	$5.00	$4.45
3.0m	YT6040	$6.90	$6.20	$5.50
5.0m	YT6049	$8.90	$8.00	$7.10
10.0m	YT6041	$13.90	$12.90	$10.90
15.0m	YT6043	$16.90	$14.90	$13.90

EXTENSION CABLES RJ12 6P/6C

Used in many office telephone Commander type systems, where 6 wires are required. Plug to plug.

- RJ12 6P/6C US Modular Plugs
- Colour Ivory

ACMA Approved

RJ12 6P/6C RJ12 6P/6C

LIFE LIFETIME GUARANTEE

	Cat.	Qty 1+	Qty 5+	Qty 20+
1.0m	YT6033	$10.90	$9.90	$8.90
3.0m	YT6036	$13.90	$12.90	$10.90
5.0m	YT6034	$14.90	$13.90	$11.90
10.0m	YT6037	$15.90	$13.90	$12.90
15.0m	YT6038	$18.90	$16.90	$14.90

REPLACEMENT HANDSET CURLY CORD

4P/4C US Modular Plugs.

ACMA Approved

RJ11 4P/4C RJ11 4P/4C

LIFE LIFETIME GUARANTEE

	Cat.	Qty 1+	Qty 5+	Qty 20+
3.0m White	YT6047	$9.90	$8.90	$7.90

RJ12 TO RJ45 MODULAR LEADS

RJ12 6P/4C to RJ45 8P/4C Colour: Ivory.

ACMA Approved

RJ12 6P/4C RJ45 8P/4C

LIFE LIFETIME GUARANTEE

Cat.	Qty 1+	Qty 5+	Qty 20+
2.0m YT6086	$9.90	$8.90	$7.90
3.0m YT6087	$14.90	$13.90	$11.90

UHF communications

Mobile 2-way radio

Jaycar is proud to announce a new range of value-for-money UHF transceivers, NEXTECH. And, of course, we still carry the venerable GME UHF comms gear and accessories.

0.5W UHF TRANSCEIVER

This lightweight hand-held transceiver is suitable for all manner of recreational and professional activities such as building sites, IT-cablers, electricians, inter-car road trip communication or keeping in touch with the kids while they play. Open field transmission range is up to 6km, with typical city range up to 1km. It runs off 3 x AAA batteries, and has features you usually only find in more expensive models, including VOX hands free, monitor, call tones, roger beep, backlit display, headset connection, and CTCSS sub-channels. There is also an LED torch built into the top in case you're stuck in the dark. Thanks to the auto-battery saving feature, the batteries won't go flat in case you forget to turn it off.

- Up to 1km Range
- 80 Channels
- 0.5W Transmission Power
- VOX Hands Free Function
- Backlit LCD
- Auto Power-Save Feature

STOCK DUE JULY 2019

NEW

1 YEAR WARRANTY

NEXTECH

SPECIFICATIONS	ALL
Frequency	400-470MHz
Channel Number	80 channels
Sub-Code	CTCSS 38
TX Power	≤0.5W
Range	Up to 3km in open field
Power:	3 x AAA Alkaline (each) not supplied

	Cat.	Qty 1+	Qty 5+	Qty 10+
Single	DC1102	$28.90	$25.90	$22.90
Twin Pack	DC1103	$45.90	$40.90	$35.90
Quad Pack	DC1104	$94.90	$84.90	

RECHARGEABLE 0.5W UHF TRANSCEIVER TWIN PACK

Include many features you usually only find on more expensive models, including backlit LCD, monitor, call tones, roger beep, child lock, VOX hands-free function, and 38 CTCSS sub channels to reduce interference on congested channels. There is also an LED built-in to find your way in the dark, and a 2.5mm earpiece jack to plug in a headset mic (not included). When not in use, the Ni-MH rechargeable batteries are kept topped up in the supplied charging cradle. When you are away from the charger, a battery save function helps to extend battery life, and regular Alkaline AAA batteries can also be used to keep the unit operating.

- 80 Channels
- 0.5W Transmission Power
- VOX Hands Free Function
- Backlit LCD
- Rechargeable
- Alkaline Battery Option

NEW

1 YEAR WARRANTY

STOCK DUE JULY 2019

NEXTECH

SPECIFICATIONS	DC1132
Frequency	400-470MHz
Channel Number	80 channels
Sub-Code	CTCSS 38
TX Power	≤0.5W
Range	Up to 3km in open field
Power:	Rechargeable Ni-MH batteries included 3 x AAA Alkaline (each) not supplied

	Cat.	Qty 1+	Qty 5+	Qty 10+
0.5W Twin Pack	DC1132	$119.00	$106.90	$94.90

AIR TUBE HEADSET FOR HAND-HELD CB RADIOS

Compatible with handheld UHF CB radios which feature a combination 3.5mm and 2.5mm earphone and microphone plugs including many from the range of NEXTECH handheld radios. Ideal for people who use CB radios for extended periods of time because the air tube is much lighter and more comfortable than standard earpiece headsets. The collar clip secures the tube without inhibiting head movement and the in-line microphone features a push to talk button and mounting clip.

- Clip-On Microphone

CB Radio not included.

NEW

Cat.	Qty 1+	Qty 5+	Qty 10+
DC1119	$28.90	$25.90	$22.90

VOX HEADSET AND MICROPHONE FOR CB TRANSCEIVERS

Handy VOX headset for use with a variety of our transceivers. Features a clip for securing to your clothes and 1m cable length. 2.5mm plug Suits DC1102, DC1103, DC1104 and DC1132

NEW

Cat.	Qty 1+	Qty 5+	Qty 10+
DC1101	$10.90	$9.90	$8.90

pick me UHF Transceivers, Handheld

	DC1102	DC1132	DC1106	DC1110	DC9046	DC9048	DC1049	DC9054	DC1068
Max Output Power	0.5W	0.5W	1W	2W	1W	2W	2W	5W	5W
Range (line-of-sight)	3km	3km	6km	10km	6km	9km	10km	14km	20km
Rechargeable		•	•	•	•	•	•	•	•
Pair		•							
CTCSS	•	•	•	•	•	•	•	•	•
Waterproof							(IPX7)	IPX7	IP67
VOX	•	•	•	•	•	•	•	•	•
Repeater Function					•	•	•	•	•
Charging Dock		•		•	•				
Supports 12V Car Charging		(Optional)	(Optional)	(Optional)	(Optional)	(Optional)	•	(Optional)	•
Supports Headset	•	•	•	•	•	•	•	•	•
Page	320	320	321	321	322	323	322	323	322

1W UHF TRANSCEIVER

Features include VOX hands-free operation, 155 group CTCSS/DCS sub-channels to reduce interference from other users on the same channel, 9 level squelch, scan/monitor, integrated LED torch, and voice encryption (scrambler) for private conversations. The built-in rechargeable Li-ion battery can be charged from any USB power source. A battery save function helps conserve battery power, along with a selectable low power setting (500mW) for local communications (such as around the campsite.). A mains power adaptor is included with dual USB output to charge a second transceiver or other USB gadgets at the same time.

- 155 Group CTCSS/DCS Private Code (Sub-Channel)
- iVOX/VOX Hands-free Operation
- LED Torch
- Rechargeable High Capacity Li-ion battery
- Voice Encryption (Scrambler)
- Battery Save function/Low Power Alert
- High/Low Power Selectable (0.5W Low, 1W High)
- Squelch Level (1-9)

STOCK DUE
JULY 2019

NEW

1 YEAR WARRANTY

NEXTECH

SPECIFICATIONS	DC1106
Frequency	400-470MHz
Channel Number	80 channels
Sub-Code	CTCSS 155
TX Power	1W (0.5W Low Power Mode)
Range	Up to 6km line of sight
Power:	Rechargeable Li-ion batteries included

	Cat.	Qty 1+	Qty 5+	Qty 10+
Single	DC1106	$56.90	$50.90	$44.90
Twin Pack	DC1108	$99.90	$89.90	$79.90

2W UHF TRANSCEIVER

An advanced 80 channel UHF transceiver for professional or recreational use. Compact in appearance but feature packed with a VOX hands-free function, CTCSS & DCS, PTT IT transmit, a group call mode, emergency alarm, selectable 25kHz wideband or 12.5kHz narrow band, and much more. An LED at the top helps shine the way at night, and an FM radio is also integrated so you can listen to important broadcasts or for entertainment purposes. A feature not seen in many other models is the Stun, Kill and Revive function. This enables you to use a second similar transceiver to send a signal that prevents unauthorised use of a lost or misplaced transceiver. The high capacity 1300mAh Li-ion battery can last up to 13 hours of average use, and a lower power mode helps extend battery life when long range communication isn't required. A mains powered charging cradle is supplied to keep the battery charged.

- Squelch FunctionHigh/ Low Power Selectable
- Emergency Alarm
- Voice prompt
- Built-in FM radio and LED Torch
- Key Pad Lock

STOCK DUE
JULY 2019

NEW

1 YEAR WARRANTY

NEXTECH

SPECIFICATIONS	DC1110
Frequency	400-470MHz
Channel Number	80 channels
Sub-Code	CTCSS 155
TX Power	2W (0.5W Low Power Mode)
Range	Up to 10km line of sight
Power:	Rechargeable Li-ion batteries included

	Cat.	Qty 1+	Qty 5+	Qty 10+
Single	DC1110	$94.90	$84.90	$75.90
Twin Pack	DC1112	$169.00	$151.90	$134.90

Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
Headset	DC1111	$22.90	$20.90	$17.90
3.7V 1500mAh Battery	DC1113	$19.90	$17.90	$15.90
Belt Clip	DC1114	$6.90	$6.20	$5.50
Spare Antenna	DC1115	$10.90	$9.90	$8.90
Charging Dock	DC1116	$16.90	$14.90	$13.90
Charging Power Supply	DC1117	$19.90	$17.90	$15.90
12V Car Charger	DC1118	$16.90	$14.90	$13.90

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

For next day delivery, or Click and Collect, see page 5

UHF Transceivers (CB Radios) CONTINUED

3W WATERPROOF FLOATING UHF TRANSCEIVER

A robust floating transceiver suitable for professional or recreational use. A 10km lineof-sight range will allow you to keep in contact over large distances and IP67 rating means it can be submersed in up to 1m of water. Battery power can be conserved by switching to the low setting (500mW) for local communications around base camp. Includes a rechargeable Li-ion battery with a charging cradle and power supply. There are 75 voice channels and the CTCSS system reduces interference from users on other channels. Great for camping, off-road race crews, roadies, people who work at large sporting venues, and more.

- Up to 10km range
- 80 channels
- IP67 weatherproof
- Switchable power output (3W/0.5W)
- Scan, CTCSS & VOX function
- Key lock/tone function
- Auto squelch function
- Low battery display
- Li-ion rechargeable battery
- Backlit LCD
- Sold individually & twin pack
- Dimensions: 120(L) x 57(W) x 35(H)mm

Tradies Pack:

2 x 3W UHF Transceivers
2 x Mini Speakers/Microphones
2 x 12V cigarette lighter chargers
2 x VOX Headset & Microphone
1 x Dual charging cradle with mains supply

1 YEAR WARRANTY

NEXTECH

	Cat.	Qty 1+	Qty 5+	Qty 10+
3W Tradies Pack	DC1076	$399.00	$359.00	$319.00
Accessories to Suit	**Cat.**	**Qty 1+**	**Qty 5+**	**Qty 10+**
Spare Battery	DC1075	$29.90	$26.90	$23.90
12-24V Car Charger **NEW**	DC1073	$19.90	$17.90	$15.90

5W UHF TRANSCEIVER

Ultra high powered UHF transmission from a compact handheld unit. It has all the feature you would expect such as 1W/5W power selection (to save battery), CTCSS, VOX, and a large backlit LCD. Advanced repeater and triple-watch features are on-board too, often reserved for more expensive units. Providing up to 20km range in a weatherproof case, it's exceptionally good value. Includes Li-ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- Up to 20km range
- 80 channels
- IP67 weatherproof
- Switchable power output (5W/1W)
- Scan, CTCSS & VOX function
- Key lock/tone function
- Auto squelch function
- Low battery display
- Li-ion rechargeable battery
- Backlit LCD
- Sold individually & twin pack
- Dimensions: 119(L) x 60(W) x 45(D)mm

Included:
DC1068 Radio
Li-ion battery pack
Removable flexible antenna
AC adaptor & charging cradle
Belt clip

Included:
Tradies Pack
2 x 5W UHF Transceivers
2 x Mini Speakers/ Microphones
2 x 12V cigarette lighter chargers
2 x VOX Headset & Microphone
1 x Dual charging cradle with mains supply

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
5W UHF Transceiver - Single	DC1068	$219.00	$196.90	$174.90
5W Tradies Pack	DC1069	$499.00	$449.00	$399.00
Accessories to Suit	**Cat.**	**Qty 1+**	**Qty 5+**	**Qty 10+**
Cigarette Lighter Charger	DC1099	$24.90	$22.50	$19.70
Speaker Mic	DC1062	$29.90	$26.90	$23.70
VOX Headset & Microphone	DC1056	$18.90	$16.70	$14.90
Air Tube Headset	DC1031	$49.90	$44.90	$39.90
Spare Rechargeable Battery **NEW**	DC1090	$39.90	$35.90	$31.90
Replacement Antenna **NEW**	DC1091	$22.90	$20.90	$17.90
12-24V Car Charger **NEW**	DC1073	$19.90	$17.90	$15.90

GME 1W UHF TRANSCEIVERS - TX665

This 1 watt UHF CB radio is both compact and lightweight with up to 17 hours battery life. It has a USB multi-charging system for charging on the go. 17 hours operating time using low output power, 12 hours using high output power (Based on 5% transmitting, 5% receiving and 90% waiting mode).

- Up to 6km range
- 80 Channels
- Switchable power output (1W/0.5W)
- Scan, CTCSS & VOX function
- Dual watch, monitor two channels
- Key lock/tone function
- DCS digital coded squelch
- Li-ion rechargeable battery
- Sold individually & twin pack
- Dimensions: 90(L) x 52(W) x 30(D)mm

Two models available:

SINGLE PACK:
- TX665 UHF handheld radio
- Li-Ion battery pack (1000mAh)
- USB power supply and lead
- Belt clip

DC4046

TWIN PACK:
- Two TX667 Transceivers
- Twin desktop charger
- 1000mAh Li-ion batteries
- Belt clips
- USB power supply
- USB charging lead

DC9047

**Accessories not stocked in all stores but can be ordered.*

2 YEAR WARRANTY

	Cat.	Qty 1+
1W UHF Transceiver - Single	DC9046	$99.90
1W UHF Transceivers - Twin Pack	DC9047	$169.00
Accessories to Suit	**Cat.**	**Qty 1+**
Speaker Mic	DC9024	$79.90
Ear Mic	DC9026	$38.90
Dual Desktop Charger*	DC9038	$41.90
Leather Case	DC9030	$24.90
Belt Clip	DC9034	$11.90
Spare Battery 1,000mAh	DC9036	$32.90

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Visit Our Online Store: www.jaycar.co.nz

find out more in store

Our staff offer friendly and helpful service. We're here to help.

UHF Transceivers (CB Radios) CONTINUED

GME 2W UHF TRANSCEIVER TX677

The TX677 2 watt UHF CB two way radio is both compact and lightweight, featuring a flexible detachable antenna, rotary power/volume control and a USB multi-charging system for charging on the go. It offers 14 hours operating time using low output power, and up to 10 hours using high output power (based on 5% transmitting, 5% receiving and 90% waiting mode).

- Up to 9km range
- 80 Channels
- Switchable power output (2W/0.5W)
- Scan, CTCSS & VOX function
- Dual watch, monitor two channels
- Key lock/tone function
- DCS digital coded squelch
- Li-ion rechargeable battery
- Recharge via USB
- Backlit LCD
- Sold individually & twin pack
- Dimensions: 90(L) x 52(W) x 30(D)mm

THREE MODELS AVAILABLE:

Included: (Transceiver Only)
- TX677 Radio
- Li-ion battery pack (1600 mAh)
- AC adaptor
- USB/Micro USB lead
- Belt Clip

DC9048

Included: (Twin Pack)
- Two TX677 transceivers
- Twin desktop charger
- 12V vehicle charger
- 1600mAh Li-ion batteries
- Belt clips
- USB power supply
- USB charging lead

DC9049

Included: (Quad Pack)
4 x TX675 Radios
4 x Li-ion battery packs (1600 mAh)
4 x Belt Clips
2 x Twin desktop charger
2 x 12v vehicle charger
2 x USB/Micro USB lead
1 x AC adaptor
1 x Instruction manual
1 x Rugged premium carry case

DC9050

**Accessories not stocked in all stores but can be ordered.*

	Cat.	Qty 1+
2W UHF Transceiver - Single	DC9048	$129.00
2W UHF Transceivers - Twin Pack	DC9049	$239.00
2W UHF Transceivers - Quad Pack	DC9050	$459.00
Accessories to Suit	**Cat.**	**Qty 1+**
Speaker Mic	DC9024	$79.90
Ear Mic	DC9026	$38.90
Dual Desktop Charger	DC9028	$41.90
Spare Battery	DC9044	$53.90
Leather Case	DC9030	$24.90
Replacement Antenna	DC9032	$53.90
Belt Clip	DC9034	$11.90

GME 5W UHF TRANSCEIVER - TX6160

This rugged Australian designed handheld UHF radio is built with a diecast chassis and is rated IP67 water and dust proof. With a powerful 2600mAh lithium ion battery pack and intelligent battery management it can operate for a maximum of 30 hours on low power or 15 hours on high power - 50% longer than any other 5W UHF CB radio. It is equipped with a super sensitive receiver with input filtering and has an extensive list of innovative software features in scanning, memory, signal processing and privacy.

- Up to 14km range
- 80 Channels
- Switchable power output (5W/1W)
- IP67 weatherproof
- Scan, CTCSS & VOX function
- Dual watch, monitor two channels
- Key lock/tone function
- DCS digital coded squelch
- Li-ion rechargeable battery
- Recharge via USB
- Backlit LCD
- Sold individually & twin pack
- Dimensions: 102(L) x 57(W) x 35(D)mm

THREE MODELS AVAILABLE:

Included: (Transceiver Only)
- TX6160 Radio
- Li-ion battery pack (2600mAh)
- Removable flexible antenna
- AC adaptor
- Belt clip

DC9054

Included: (Accessories Pack)
- Earpiece style microphone with VOX & PTT
- IP67 speaker microphone
- Desktop rapid charger with mains adaptor
- In-car charging lead

DC9052

Included: (Twin Pack)
- Two TX6160 transceivers
- Earpiece style microphone with VOX & PTT
- IP67 speaker microphone
- Desktop rapid charger with mains adaptor
- In-car charging lead

DC9053

**Accessories not stocked in all stores but can be ordered.*

	Cat.	Qty 1+
5W UHF Transceiver Only	DC9054	$289.00
5W UHF Transceiver - with Accessories	DC9052	$369.00
5W UHF Transceiver - Twin Pack	DC9053	$659.00
Accessories to Suit	**Cat.**	**Qty 1+**
Accessories Pack	DC9055	$119.00
Speaker Mic*	DC9024	$79.90
Ear Mic*	DC9026	$38.90
Dual Desktop Charger	DC9022	$94.90
Spare Battery 2,600mAh	DC9020	$189.00

For next day delivery, or Click and Collect, see page 5

UHF Transceivers (CB Radios) CONTINUED

5W UHF CB RADIO - UNDER DASH

1 YEAR WARRANTY

This unit allows you to remotely locate the transmit/receive base unit and only have the microphone itself within easy reach. All functions for the unit are on the face of the microphone, there are no controls on the power unit at all. The microphone has a speaker in it, which enables you to completely control the transceiver from this unit.

- 5W max output
- 80 channels
- Operating voltage 12-24VDC
- 100 User Programmable RX Channels
- CTCSS(38) & DCS(104) status codes
- Channel / Memory Scan
- Group Scan
- Key and ringer tone selection
- Backlit LCD and keypad
- Dimensions: 127(W) x 100(L) x 25(H)mm (Base Unit) 102(H) x 57(W) x 27(D) mm (Microphone)

**Replacement microphone not stocked in all stores but can be ordered.*

	Cat.	Qty 1+	Qty 5+	Qty 10+
5W UHF Radio	DC1122	$299.00	$269.00	$239.00
Antenna to suit	DC3078	$119.00	$106.95	$94.95
Accessories to Suit	**Cat.**	**Qty 1+**	**Qty 5+**	**Qty 10+**
Mic Bracket Clip	DC3080	$7.40	$6.65	$5.90
Replacement Microphone	DC1125	$109.00	$97.90	$86.90

GME 5W UHF IN-DASH ULTIMATE PACK - TX3350UVP

5 YEAR WARRANTY

A feature packed super compact UHF CB radio with the new SoundPath® full function LCD speaker microphone. The microphone has a built-in speaker with clear audio, all within a compact and ergonomic design. SoundPath® diverts the audio through a unique convex path around the microphone bollard, whilst maintaining the compact size. Because the controls are on the microphone the radio can be discretely installed in almost any location within a vehicle and without the need for extension speakers. Supplied with two interchangeable antenna masts for rugged and flat terrain, along with two different mounting brackets.

- 5W max output
- 80 channels
- Operating voltage 10-15VDC
- Digital signal processing
- CTCSS, DCS and adjustable squelch
- Selectable duplex channels
- Dynamic volume control
- SoundPath® speaker microphone
- Programmable scan function
- Backlit LCD and keypad
- Dimensions: 102(W) x 87(L) x 23(H)mm (Base Unit)

Included:

- TX3350 radio
- LCD speaker microphone & clip
- 6.6dBi ground independent antenna with 4.5m lead
- 2.1dBi low gain replacement antenna whip
- Universal "Z" bonnet/ boot antenna mount
- Universal bull bar antenna mount
- Cigarette lighter DC power lead
- Mounting Cradle and screw pack

	Cat.	Qty 1+
5W UHF Radio Ultimate Pack	DC9018	$669.00

TRANSCEIVER UHF 5W START PK GME TX3100VP

GME

5 YEAR WARRANTY

Begin your UHF CB experience with everything you need from the get-go. The super compact size and power, combined with its ease of use, makes it a perfect UHF CB radio for all types of users. Coupled with a high performance antenna and mounting bracket, this Starter Kit is all you'll need in the one box!

- 5W max output
- 80 channels
- Operating voltage 10-15VDC
- Digital signal processing
- CTCSS, DCS and adjustable squelch
- Selectable duplex channels
- Dynamic volume control
- Display flip function
- Programmable scan function
- Dimensions 102(W) x 87(L) x 23(H)mm (Base Unit)

Included:

- TX3100 radio
- Microphone & clip
- 6.6dBi ground independent antenna with 4.5m lead
- Universal "Z" bonnet/boot antenna mount
- Cigarette lighter DC power lead
- Radio mounting bracket and screw pack

**Accessories not stocked in all stores but can be ordered.*

	Cat.	Qty 1+
	DC9014	$399.00
Accessories to Suit DC9014	**Cat.**	**Qty 1+**
Suction Mount Bracket*	DC9040	$57.90
Microphone to suit*	DC9042	$69.90

Tye Keane likes to

think. possible.

"I think that e bike's will improve in the next 5-10 years because of rapid improvement of battery and motor technology improving weight, power and duration. Tye Keane - 13"

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youtube.com/user/JaycarVideo

GME UHF transceiver XRS-330CP portable pack:

The XRS family is a new Australian Made radio platform designed to be smart, adaptable and rugged.

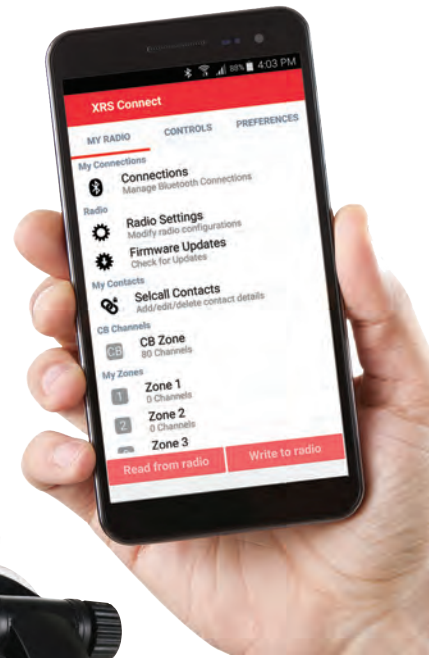
Enabled by Bluetooth® wireless technology, XRSTM is the first of a new generation of connected UHF radios with unique features never before seen. It is the first ever UHF CB radio with app control and introduces new features such as creating and sharing scan lists and instant access to the entire Australian and New Zealand registered analogue frequency database.

Much like a smart device, the XRS family are software upgradable via the app, keeping customers up to date with the latest features and technology.
The new XRS Connect professional grade speaker microphone features a powerful 2 watt speaker, customisable buttons and a high contrast OLED screen guaranteeing crystal clear, anti-glare display.

Visit Google Play or the App Store and search 'XRS Connect'.
App compatible with iOS9.0, Android 5.0 and above

- 5W max output
- 80 channels
- Operating voltage 10-16VDC
- Bluetooth connectivity
- Digital signal processing
- CTCSS, DCS and adjustable squelch
- Selectable duplex channels
- Dynamic volume control
- XRS Connect speaker microphone
- Programmable scan function
- Backlit OLED display
- Dimensions: 117(W) x 128(L) x 29(H)mm (Base Unit)

Cat. DC9057



Note: Smartphone not included.

DC9056

XRS-330CP

The XRS-330CP is perfect for casual users and owners of high-end vehicles who do not wish to permanently install a UHF radio in their vehicle. The pack comes with everything you need to get started – the premium XRS-330C UHF CB Radio, suction cup mount, 12V Accessory lead, 2.1dBi magnetic antenna and all mounting hardware – contained within a handy carry case for convenient storage when the radio is not in use.

Cat. DC9056

Download on the App Store | GET IT ON Google Play | GME | Bluetooth® | MADE IN | 5 YEAR WARRANTY

	Cat.	Qty 1+
XRS-330C - Base Station and Microphone Only	DC9057	$569.00
XRS-330CP - Full Portable Pack (Shown)	DC9056	$599.00

UHF Transceivers (CB Radios) Accessories

UHF LINE PLUGS - PL259 TYPE

PP0680

PP0682

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder - RG 58U - with Reducer	PP0680	$3.90	$3.10	$2.70
Solder - RG-8U	PP0682	$3.90	$3.10	$2.70

UHF JOINER & SOCKET

PS0690

PS0686

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Joiner - Double Female	PS0690	$4.90	$4.10	$3.70
SO239 Chasis Socket	PS0686	$3.90	$3.10	$2.70

50 OHM RG58/U COAX CABLE

Suited up to 500MHz, ideal for CB, marine, amateur and two-way radio.
- Sold by the metre or by the 100m roll

For full specifications see page 166.

	Cat.	Per Metre	1+ Roll	5+ Rolls
50 Ohm RG58/U Coax Cable	WB2010	$1.90	$150.00	$120.00

ROTARY COAX STRIPPER

This handy stripper will strip the outside jacket and inner conductor in one operation.
- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rotary Coax Stripper	TH1820	$24.90	$22.40	$19.90

For next day delivery, or Click and Collect, see page 5

UHF Antennas & Accessories

UHF PREMIUM ANTENNA KITS

Robust and durable antennas for UHF communications. Independent ground plane to ensure stable radiation pattern in all mobile mounting applications. Two models to choose from. Each feature 5m pre-terminated cables with FME socket and PL259 adaptor so no tools are required.

4DBi FLEXIBLE UHF ANTENNA

- 407mm long
- Includes 'L' guard mount bracket

DC3073

1 YEAR WARRANTY

SPECIFICATIONS	DC3073
Frequency	476.42 - 477.40MHz
Gain	4dBi
VSWR	<1.5:1
Impedance	50 Ohms
Polarization	Vertical
Radiation	Omni Directional
Cable	LL195 Low loss, 5m length
Termination	FME socket + UHF plug to FME plug adaptor
Base Materials	Stainless Steel Brass
Antenna Length	407mm

PREMIUM UHF ANTENNA WITH 3DBi & 6.5DBi ANTENNAS

- Stainless spring & elevated feed base
- 450mm (3dBi) and 900mm (6.5dBi) long
- Includes 'L' guard mount bracket and bull bar bracket

DC3071

SPECIFICATIONS	DC3071
Frequency	476 - 477MHz
Gain	3dBi, 6.5dBi* (* Reference to ¼ waves mounted on centre of Vehicle Roof)
Input Impedance	50 Ohms
Radiation Pattern	Omni directional
Antenna Materials	Brass & flexible polypropylene radome
Antenna Weight	190g
Cable	LL195 Low loss, 5m Length
Termination	FME socket + UHF plug to FME plug adaptor
Antenna Length	407mm 450mm 900mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
4dBi	DC3073	$94.90	$84.90	$75.90
3dBi & 6.5dBi	DC3071	$159.00	$142.90	$126.90

UHF 5DBi FIBREGLASS ANTENNA WITH 5M CABLE

Another addition to our antenna range. This model is suitable for cars and trucks using UHF transceivers. The antenna is fibreglass and it features a tough flexible spring base to absorb and deaden the vibrations associated with driving.

1 YEAR WARRANTY

SPECIFICATIONS	DC3078
Frequency	477MHz for UHF
Cable Connector	FME
Gain	5dBi
Length	630mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
UHF 5dBi Fibreglass Antenna with 5m Cable	DC3078	$119.00	$106.95	$94.95

UHF 4-5DB BLACK WHIP

Offers at least 4.5dB gain.

- Black powder coated
- Stainless steel whip
- Length 565mm
- Suits standard UHF 5/16" base DC3062 on this page

	Cat.	Qty 1+	Qty 5+	Qty 10+
4-5dBi	DC3074	$27.90	$24.70	$21.90

find out more in store

Our staff offer friendly and helpful service. We're here to help.

EXTERNAL UHF ANTENNA

For use with our external antenna base (DC3066) or any other antenna base with suitable connecting thread.

- Operating Frequency: 477MHz
- Gain: 5-6dBi
- Impedance: 50Ohm
- Length: 650mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
6dBi	DC3076	$24.90	$22.30	$19.70

PLASTIC MICROPHONE BRACKET

Microphone bracket clip to suit DC1120 UHF handset. The back plate features mounting holes for screwing it in and is flat enough to use double sided adhesive tape. Stainless steel mounting screws included.

- Dimensions: 33mm x 36mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Plastic Microphone Bracket	DC3080	$7.40	$6.65	$5.90

METAL MICROPHONE BRACKET

Microphone bracket clip to suit most UHF/VHF receiver handsets. The metal plate features mounting holes for screwing it in for a solid mount.

- 3 screws Included

	Cat.	Qty 1+	Qty 5+	Qty 10+
Metal Microphone Bracket	DC3082	$9.70	$8.70	$7.70

UNIVERSAL CB BASE

Standard 5/16" 26TPI low profile base complete with solder lugs for cable connection.

MADE IN

	Cat.	Qty 1+	Qty 5+	Qty 10+
Universal CB Base	DC3060	$13.90	$12.50	$11.10

UHF EXTERNAL ANTENNA BASE WITH CABLE

Designed for use with our fixed installation transceiver unit (DC1120) to enable you to connect an antenna. The antenna base can be mounted to a bracket and the PL259 plug will connect to the UHF unit.

- PL259 connection: 17(Dia.)mm
- RG58 Coax Cable
- Antenna base dimensions: 44(Dia.) x 40(H)mm
- Cable length: 4500mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
UHF Base with Cable	DC3066	$36.90	$33.20	$29.50

27MHZ HELICAL WHIP

High performance helical fibreglass mobile whips designed and manufactured in Australia to suit our rugged conditions. All with standard 5/16" 26TPI thread.

MADE IN

	Cat.	Qty 1+	Qty 4+	Qty 10+
900mm	DC2030	$20.50	$17.90	$15.90

Stephen Reeves likes to

think. possible.

"I think that smartwatches are the next big revolution in technology. The devices will become much more powerful and sophisticated, and will be able to control all the technology that we will interact with (IoT hubs). I think they will actually become independent of the smartphones we currently use."

UHF Antenna Mounting

TRUNK GROOVE BRACKET - Z SHAPE

Polished stainless steel bracket in a Z shape to mount an antenna on the vehicle boot or bonnet.

SPECIFICATIONS	DC3075
Antenna Mounting	16mm
Mounting Holes	4 x 4.6mm
Cable Entry	5.5mm
Back Plate	52(W) x 57(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Trunk Groove Bracket - Z Shape	DC3075	$11.90	$10.70	$9.50

RIGHT ANGLE BULL BAR BRACKET STAINLESS STEEL

This stainless steel bracket will allow you to attach an antenna to your vehicles bull bar to improve reception to your UHF radio. For those who frequently work or travel to remote areas this is ideal.

- Dimensions of L bracket: 56 x 57 x 54mm
- Length of U brackets 72mm
- Material: 304 Grade Stainless steel

	Cat.	Qty 1+	Qty 5+	Qty 10+
Right Angle Stainless Steel	DC3077	$19.90	$17.70	$15.70

UNIVERSAL BULLBAR MOUNTING BRACKETS

These brackets are designed to mount driving lights, spotlights, UHF antennas and other various applications to a tube frame (such as a bull-bar). Allows for much easier attachment to bull-bars, trailer railing, ute roll-bars or even a roof rack. Stainless steel construction with shockproof rubber insulation so your tube frame isn't scratched or dented.

Ideal for use with our range of 12VDC LED lights SL3914, SL3912, SL3916, SL3918, SL3920 and SL3922.

- Can be adapted to mount driving lights
- 3 sizes available to fit various diameter frames:

	Cat.	Qty 1+	Qty 2+	Qty 6+
25-38mm	SL3925	$19.90	$17.70	$15.70
40-52mm	SL3927	$19.90	$17.70	$15.70
70-80mm	SL3929	$24.90	$22.40	$19.90

VHF Antenna

560MM STAINLESS STEEL VHF MARINE ANTENNA

NEW

This 1/4 wave marine antenna is made from high-grade stainless steel and works best with a ground plane such as the centre of a metal roof. Stainless Steel antennas are generally capable of handling abusive environments and have a longer lifespan compared to braided fibreglass whips, although they do have a slightly reduced electrical performance. It is fitted with a standard 27TPI threaded ferrule for easy mounting to a standard base.

- Stainless Steel Construction
- 27TPI Screw Mount

	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC2070	$16.90	$14.90	$13.90

product data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

Mini Comms Speakers

MINI COMMUNICATIONS SPEAKER

For use with CB's and other communication devices, this mono speaker is small and can be mounted in any position for ease of use. It comes with a 3.5mm plug on a 2 metre cable and includes screws and bracket for mounting. It incorporates an 8 ohms round speaker and can handle 5 Watts Max.

SPECIFICATIONS	AS3185
Frequency Response	100Hz- 15kHz.
Dimensions	98(W) x 80(H) x 57(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Each	AS3185	$25.90	$22.90	$20.90

RECTANGULAR COMMUNICATIONS SPEAKER

For use with CB's and other communication devices, this mono speaker can be mounted in any position for enhanced listening of incoming transmissions. It comes with a 3.5mm plug on a 2 metre cable and includes screws and bracket for mounting. It incorporates an 8 ohms rectangular speaker and can handle 5 watts max.

SPECIFICATIONS	AS3182
Frequency Response	100Hz- 15kHz
Dimensions	130(W) x 80(H) x 59(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Each	AS3182	$28.90	$25.90	$22.90

Wireless At War Book

WIRELESS AT WAR BOOK - BY PETER JENSEN

The existence of electromagnetic radiation was first demonstrated in 1885 by Heinrich Hertz. After 1900 the potential advantages of wireless technology to the battlefield and for marine warfare became known, interested industrial organisations multiplied, keeping pace with the growth of the armies and navies. This book features 250 photos and diagrams and tracks the use of wireless technology in war from its inception all the way up to more recent conflicts in Afghanistan. Special reference is made to military communications used by the Australian Army, especially WWII and Vietnam. Whilst overseas references are made, this book is basically about radio technology and the Australian army. It was written by an Australian radio historian. A great read. Softcover 352 pages. 225 x 150mm.

	Cat.	Qty 1+
Wireless at War Book - by Peter Jensen	BM2490	$39.90

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In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

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CATALOGUE DEPARTMENT - JAYCAR:

catalogue@jaycar.com

For next day delivery, or Click and Collect, see page 5

VHF Transceivers

When the Italian/British inventor Marconi developed wireless communications at the beginning of the last century, he envisioned radio apparatus to be so complicated that special experts had to be trained to operate it. Indeed, this was an accepted dictum and "The Marconi School of Wireless" was established in many countries to train people. It was run in Australia by AWA and it was around for many, many years. As technology advanced, it was becoming obvious that you did not have to be a rocket scientist to operate a two-way type radio set. The American Motorola company (the inventor of the car radio) developed a two-way radio for the police. This innovation helped the police and soon other industries started clamouring for similar sets for their industries. Taxi-cabs were an early adopter of two-way radio. This improved the productivity of the taxi service enormously. By the mid-to-late 60's two-way radios were being adopted for taxis, the fire brigade, police and other commercial users. The frequency band was split up to two sections both VHF. There was VHF low band and VHF high band. It did not really matter to the operator, however. Early marine two-way radio operated on the "short wave" or High Frequency Bands. It was complicated to use but had long range. You had to dial an actual frequency and the operation required some skills. The sets were quite expensive. Riding on the back of the CB radio boom in the mid-70's came 27MHz marine radio. It was relatively simple to use, but had limited range and was plagued with interference. A VHF marine band was gazetted earlier but popularity was limited because sets were fairly expensive. Along came Japanese production technology from the CB boom and the price of VHF Marine radio equipment plummeted. VHF Radios were refined, worked on FM which made them almost interference free, and used simple channel numbers rather than frequencies and only needed a minimum number of controls. And you did not need to be trained by the Marconi School of Wireless to operate them! See "TECH TALK" below for more info on VHF marine equipment.

3W VHF MARINE WATERPROOF FLOATING TRANSCEIVER

A VHF radio on a boat is a must have. You never know when your boat may be rendered inoperative by engine malfunction, a storm, rogue waves, or a monster from the deep. This transceiver will give you coverage of all international VHF marine channels so you can call for help when needed or communicate with other boats. This unit is fully submersible so if you find your boat has been capsized and you are stuck under the hull you know you'll be still be able to call for help. Includes a Li-ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- IP67 rated
- 1/3W Switchable output power
- Backlit LCD
- Dual and triple watch function
- Channel scan function
- One-touch emergency channel 16
- Auto power saver mode
- Dimensions: 130(L) x 60(W) x 35(D)mm

Don't forget to wash the unit in fresh water if it goes for a swim!

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
3W VHF Transceiver - Single	DC1093	$129.00	$115.90	
Spare Battery Pack	DC1075	$29.90	$26.90	$23.90

5W VHF MARINE RADIO TRANSCEIVER

1 YEAR WARRANTY

You should never head out to sea without a VHF radio. If you plan on doing a bit of sailboat racing, the club rules will probably make a VHF radio compulsory on-board equipment. This powerful 5W hand-held transceiver gives you coverage of all international VHF marine channels. Though not completely submersible, the housing is compact and splash proof, specially designed to endure the usual rigours of boating. The antenna is detachable so units can be connected to a larger antenna mounted on a boat. Includes Li-Ion rechargeable battery pack, AC adaptor, charging cradle, and belt clip.

- 1W/5W switchable output power
- Backlit LCD
- Dual and triple watch function
- Channel scan function
- One-touch emergency channel 16
- Auto power saver mode

Note: The USB charging socket requires 12V, standard 5V USB power supplies will not suit.

	Cat.	Qty 1+	Qty 5+	Qty 10+
5W VHF Transceiver - Single	DC1096	$159.00	$142.90	
Accessories to Suit	**Cat.**	**Qty 1+**	**Qty 5+**	**Qty 10+**
Cigarette Lighter Charger - 1.2m	DC1099	$24.90	$22.50	$19.70
Spare Battery Pack	DC1066	$31.90	$28.70	$25.50
Speaker Mic	DC1062	$29.90	$26.90	$23.70
Leather Pouch	DC1067	$15.90	$14.30	$12.70
VOX Headset & Microphone	DC1056	$18.90	$16.70	$14.90

tech talk VHF Marine Radio

The VHF Marine Radio band (156 - 174MHz) has been allocated internationally for the exclusive use of two-way radio equipment with fixed technical standards for marine use. Theoretically, you can buy a VHF marine transceiver in Country A and it will work in any other country. The reality, however, is slightly different. There are 56 channels allocated across the radio spectrum for Australia shown above, and the main emergency channel, channel 16, is the same all over the world! There is a secondary distress channel, channel 67 and it is also universal. When you operate a VHF Marine transceiver you monitor Ch. 16 (in case someone makes a distress call) and you can actually use that channel to call a colleague to contact them on the water. Once you have made contact, you immediately switch to another channel to keep Ch. 16 clear for possible emergency use. It is wise to confer with your colleague before going out to agree on the alternative channel, say Ch. 10. Then you don't have to broadcast what that channel is to discourage people from snooping in on your conversation. The non-emergency channel allocations may have local specific uses (such as harbour management, etc.) and this info appears in the manual that comes with the equipment when you buy it, if you buy it in Aus/NZ. RANGE: For most amateur boating operations you should get plenty of range with VHF marine. A good fixed installation (not handheld units) should give you 25km line-of-sight. Conditions vary enormously at sea, so don't depend on this. Most of the time someone will hear you and you can relay messages if necessary. Volunteer coastal stations monitor Ch. 16 generally 24 hours a day. PRIVACY: Remember your first conversations can be heard by anyone on Ch. 16. Depending on how sophisticated your VHF unit is, you can configure it to have a private conversation with a colleague who has similarly equipment set on a non-emergency channel. One of the best features of VHF Marine use is that you do not have of be aware of actual frequencies. You can then think just in terms of channel numbers. Setting up when you go out. If you like, you can go straight to your nominated channel and bypass Ch. 16 as much as possible. You can arrange 'skeds' (i.e. schedules) to monitor, say Ch. 10, at 15 minute intervals, quarter to the hour, on the hour, a quarter past and half past for 2 - 3 minutes and then the rest of the time on Ch. 16. Happy boating!

power

Anderson connectors 404
jumpstarters 386
solar panels 395
LED modules & strips 416

power

the heart of everything

All electronic equipment needs power, whether it is from a built-in source or an external source. This section deals with external source power supplies.

The following pages show our vast range of power sources and related interconnection leads, adaptors and other power connection hardware.

We start with USB type power supplies, the most common power and communication interface in the world today. Our range is, without a doubt, the largest in Australia and/or NZ. Related to this, you will find a large range of USB connectors, power sockets, and power banks, which will cover your every need!

You will then find laptop power supplies, and UPS (Uninterruptible-Type Power Supplies) and then the biggest range of 240V plugpacks in Aust/NZ. We also have 240V/115V converters, lighting transformers, and fixed mains units from the best maker in the world Mean Well, of which we are a master distributor.

For those of you who require an "undedicated" supply, we have a huge range of "Laboratory" type units. After that, you will find a massive range of powerboards, power meters, extension leads, and AC adaptors for most domestic foreign country conversions.

Our range does not end there, for we then have our huge range of battery chargers and then batteries themselves, and their accessories! We even have reintroduced a range of carbon-zinc cells for the very budget conscious.

We also need to remind you that we now stock the spectacular Lithium Iron Phosphate (LiFePO4) deep cycle power batteries (See page 374). If you have a need for a large lead-acid type application, we seriously suggest you look at these as an alternative.

Jaycar has an enormous range of conventional Lead-acid storage batteries as well for general and solar panel installations, as well as related power meters, etc.

The Power section is 100 pages long, which includes solar panels and all sorts of other stuff.

So without further ado, why not brew yourself a cup of coffee or tea and have a good browse. This section is one of the most comprehensive in our venerable 2019 volume.

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Mains USB Chargers

18W USB TYPE-C MAINS POWER ADAPTOR

USB-C with Power Delivery enables faster charging for more powerful devices. This PD wall charger is capable of communicating with compliant USB Type-C device and intelligently feed maximum power for quick and optimum charging. Suitable for charging latest Type-C phones and devices. USB PD will charge your smartphone up to 70% faster than standard 5W charging.

- All late model Type-C enabled smartphones including Apple® (via USB-C to Lightning cable)

SPECIFICATIONS	MP3410
Input	100-240V AC 50/60Hz
Output	5VDC @ 3A, 9VDC @ 2A, 12VDC @ 1.5A
Dimensions	43(W) x 27(H) x 74(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3410	$33.90	$29.90	$26.90

45W USB TYPE-C MAINS POWER ADAPTOR

The days of different chargers for different devices are coming to an end! Power delivery in USB Type-C simplifies charging your portable devices. You can use this power adaptor to charge your laptop, or to charge your phone (compatible devices, of course). It automatically adapts to the required voltage (between 5 and 20VDC) to optimise charging time and efficiency for the connected item. Includes a 1m USB Type-C cable. Devices like the new iPhone® which do not have a Type C connector but support Power Delivery can be charged using the original Type-C cable suited to that device.

- Nintendo switch, new MacBook, Google® Chrome book, all late model Type-C enabled smartphones including Apple® (via USB-C to Lightning cable)
- Supports USB Power Delivery (PD) for fast charging & more power for large devices
- Oveload, over current, short circuit protection
- **Includes a 1m USB Type-C cable**

SPECIFICATIONS	MP3412
Input	100-240VAC @ 50/60Hz
Output	5V/9V/12V/15VDC @ 3A, 20VDC @ 2.25A Max
Dimensions	41(W) x 56(H) x 102(D)mm (Excluding Plugs)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3412	$69.90	$62.90	$55.90

Mains USB Chargers CONTINUED

USB POWER ADAPTORS

A simple solution to your USB power needs in a conveniently small package. Choose between the 1.0A model to charge mobile phones, MP3 players, cameras and other small USB charged devices, or the 2.1A model that can also charge Tablets and iPads®. They also feature worldwide voltage input making them great for travellers. Just connect your USB charging cable (not included) and away you go.

SPECIFICATIONS	BOTH MODELS
USB	Type A
Input Voltage	100-240VAC, 50/60Hz
Output	MP3455: 1.0A, MP3449: 2.1A
Dimensions	40(dia) x 27(L)mm

1 YEAR WARRANTY

	COLOUR	Cat.	Qty 1+	Qty 5+	Qty 10+
1A	Black	MP3455	$18.90	$16.70	$14.70
2.1A	White	MP3449	$24.90	$22.40	$19.90

DUAL USB WALL CHARGER WITH LED NIGHT LIGHT

This is a compact light weight multi-functional dual USB wall charger with LED night light, with both features functioning independent of each other. With a built in intelligent module the USB ports will deliver fastest possible charging speeds to smart phones, tablets and other USB devices.

- Light weight and compact, occupies single wall socket
- 3 light modes for night light function
- Fast charging dual USB outlets

SPECIFICATIONS	MP3429
Input	100~240VAC, 50Hz
Output	5VDC 3A (Shared), Dual USB
Dimensions	55 (Dia.) X 49 (L)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3429	$22.90	$20.90	$17.90

tech talk USB Type-C Power Delivery

USB Type-C has made strides towards providing a one-interface solution for virtually all peripheral devices. It can provide HDMI, standard USB, and a host of adaptors are readily available, with exceptionally high speeds available.

One major area of advancement with USB Type-C which other standards never really managed to take on however, was handling the growing demands on USB for power.

The USB Type-C standard provides a solution to this problem with up to 100W of power, with an intelligent negotiation for requirements from connected devices. This means that Type-C can power your external hard drive, but also your laptop!

Major benefits of USB Type-C Power Delivery are:

- Faster charging and more power for larger devices.
- Bi-directional power flow. A peripheral can act as a power source providing power to the larger device.
- Optimised power management with each device negotiting only for the power it requires.
- Intelligent and flexible system level management of power.
- Low power peripherals such as keyboards and headphones only request low amounts of power.

With new technology adopting USB Type-C, almost universally in many cases, it's a powerful step forward to a new standard. However many devices are yet to adopt USB Type-C. They still achieve the high speed USB 3.0 connection, but only standard power options are provided.

Fortunately, USB Type-C is easily adapted to older standards for full backward compatibility. As you will see from these pages, we have a range of adaptors which will allow you to charge your USB Type-C, as well as standard USB A devices. In time, USB Type-C may be the only connection you need. Until then, we've got you covered.

65W HIGH CAPACITY 4 PORT USB CHARGING STATION

This charging station covers all your USB charging requirements in one compact unit. A 45W Type-C port with power delivery keeps your compatible devices (laptops, many new smartphones etc.) charging at rapid rates. A Quick Charge™ USB port provides rapid charging up to 18W for enabled devices (will work as a standard USB port for devices without Quick Charge™ technology), and two standard 2.4A USB charging outlets for fast charging of power-hungry portable devices. It has all your charging requirements taken care of in one convenient unit!

- Nintendo switch, new MacBook/ MacBook Pro(13"), Google® Chrome book, all late model Type-C enabled smartphones including Apple® (via USB-C to Lightning cable)
- Supports USB Power Delivery (PD) and Quick Charge™ 3.0
- Short circuit and overload protection
- 1.2m SAA approved mains lead supplied

1 YEAR WARRANTY

Qualcomm Quick Charge 3.0

SPECIFICATIONS	MP3418
Input	100-240V AC 50/60Hz , 1.5A Max.
Output	Quick Charge™ 3.0: DC 3.6-6V/ 3A, 6-9V/ 2A, 9-12V/ 1.5A, 18W Max. USB-C: 5/9/12/15VDC 3A, 20VDC 2.25A, 45W Max. USB-A x 2: 5VDC 2.4A (Each), 12W Max.
Weight	191g
Dimensions	33(W) x 81(H) x 82(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3418	$79.90	$71.90	$63.90

2 PORT USB POWER ADAPTOR

An ultra fast USB charger complete with 2 x USB sockets with 2.1A each, capable of charging virtually any mobile phone or USB device including all iPod® / iPhone® / iPad® models. Features worldwide voltage input making it great for travellers. Outputs 2100mA for each socket allowing it to charge 2 devices simultaneously. The perfect mobile device charging solution for your home and travel needs.

1 YEAR WARRANTY

SPECIFICATIONS	MP3459
Input Voltage	100-240VAC, 50/60Hz
Output	5VDC, 2.1A + 2.1A (4.2A total)
Dimensions	60(W) x 60(H) x 30(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x 2.1A	MP3459	$34.90	$31.90	$27.90

3A QUICK CHARGE™ 3.0 USB POWER ADAPTOR

Heading out in 30-minutes and zero charge on your phone is never good! But with embedded Quick Charge™ 3.0 technology you can charge up to 4-times faster than a standard charger! Just plug it into a spare mains outlet and it will provide you a single USB charging outlet. If your device doesn't support Quick Charge™ technology, it will still charge at up to 2.4A output.

Qualcomm Quick Charge 3.0

1 YEAR WARRANTY

SPECIFICATIONS	MP3443
Input Voltage	100-240VAC 50/60Hz
Voltage Output	3.6-12VDC
Current Output	3.6-6.5VDC @ 3A, 6.5-9VDC @ 2A, 9-12VDC @ 1.5A
Dimensions	43(W) x 28(H) x 70(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3.0A Quick Charge™	MP3443	$36.90	$32.90	$28.90

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With Zip Pay, you can choose flexible repayments to get what you want now, on interest free terms! Available for in-store and online purchases, check out www.jaycar.co.nz/zippay for more information.

For next day delivery, or Click and Collect, see page 5

Mains USB Chargers CONTINUED

DUAL 3A USB POWER ADAPTOR WITH QUICKCHARGE™ 3.0

Charge your devices quickly and simply. This mains adaptor includes a standard 2.4A USB port as well as a port equipped with Qualcomm® Quick Charge™ 3.0 to recharge faster than ever before. The Quick Charge™ equipped port will still deliver up to 2.4A to a device not equipped with Quick Charge™ technology too.

SPECIFICATIONS	MP3437
Input	100-240VAC @ 0.7A Max
USB Outputs	Quick Charge™ 3.0: 3.6-6.5V @ 3A; 6.5-9V @ 2A; 9-12V @ 1.5A, Standard: 5V @ 2.4A Max
Weight	82g
Dimensions	55(W) x 83(D) x 40(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP3437	$45.90	$40.90	$35.90

3A USB TYPE-C POWER ADAPTOR

Easily charge your Smartphone or tablet anywhere you go using this compact power adaptor. Plug into a mains outlet then connect your device using your USB Type-C power cable. Regardless of whether you connect a Smartphone, tablet or laptop, this adaptor will conveniently auto detect the device's ultimate charging requirements and charge accordingly. Built-in short circuit safeguard, overload protection and fully regulated output.

SPECIFICATIONS	MP3445
Input Voltage	100-240VAC
Output Voltage	5VDC
Output Current	3A
Dimensions	57(L) x 54(W) x 28(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+
3.0A	MP3445	$11.90	$10.90

4 PORT USB POWER ADAPTOR

This slimline 4.8 amp mains power adaptor allows you to charge four USB devices from one power socket, conveniently freeing up other power sockets for use. Just plug the adaptor into a standard AC power socket and connect the charging cables of your devices to the four USB ports. Great for homes or offices that are short on power sockets and big on power hungry devices.

1 YEAR WARRANTY

SPECIFICATIONS	MP3446
Voltage Input	100-240VAC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max.), 1.2A Each Port (Across 4 ports), 4.8A (Total)
Dimensions	105(H) x 40(W) x 35(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
4 Port	MP3446	$36.90	$33.20	$29.50

David Abela likes to

think. possible.

"Arduino will be a key part of future technological advancements as it gives the ability for people of all ages and especially the younger generations the ability to learn and develop Electronics, Coding and Engineering Skill's. You now have the ability to literally create anything you can think of!"

$500 Gift Card Winner

DUAL USB TRAVEL POWER ADAPTOR WITH INTERCHANGEABLE PLUGS

Never get caught out without USB power for phone or tablet recharging ever again! This compact and lightweight adaptor has USA 2 PIN type plug inbuilt and 3 interchangeable international plugs covering over 150 countries worldwide. It provides 2 x USB charging outlets, up to 2.4A total, no matter what country you're in. Includes a handy carry bag to keep everything together. Works between 90 and 264VAC to suit all mains power sources.

- Dual USB charging outlets
- Built in US plug with UK, Euro, AU adaptors
- 2 X USB ports (2.4A Total)

SPECIFICATIONS	MP3436
Input Voltage	90-264VAC
Output	5VDC @ 2.4A / 12W Max
Weight	91g (Total)
Dimensions	Main Unit: 32(W) x 37(H) x 34(D)mm (Plugs Folded) Australian Plug: 40(Dia.) x 35(D)mm European Plug: 35(W) x 30(H) x 55(D)mm British Plug: 50(W) x 42(H) x 40(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3436	$28.90	$25.90	$22.90

Mains USB Chargers - With Leads

USB POWER ADAPTOR WITH MICRO B LEAD

Mains charger with a USB port to charge a variety of devices. Great as a replacement or backup. Comes with a 1m USB 2.0 Micro B charge and sync lead.

1 YEAR WARRANTY

SPECIFICATIONS	MP3544
Input Voltage	100-240VAC
Output Voltage	5VDC
Output Current	1A

	Cat.	Qty 1+	Qty 5+	Qty 10+
USB 2.0 Micro B - 1.0A	MP3544	$24.90	$22.40	$19.90

5.1V 2.5A SWITCHMODE POWER SUPPLY FOR RASPBERRY PI

NEW

Provides all the power you need for even the most power-hungry code! Micro B USB connector for plug and play operation with Raspberry Pi. Can also be used for other USB-powered devices with a Micro B USB socket, including some Arduino® hardware, many Bluetooth® speakers, and more.

- Designed to take full advantage of the improved power management on the Raspberry Pi 3
- 1.5m lead with Micro B USB connector
- Use with Raspberry PI, charge power banks, portable speakers etc.
- SAA approved and MEPS compliant

SPECIFICATIONS	MP3536
Input Voltage	100-240VAC
Output Voltage	5.1VDC
Output Current	2.5A
Cable Length	1.5m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
USB Micro B	MP3536	$25.90	$22.90	$20.90

monthly specials & promotions

Lookout for our monthly promotions in store and online.

Mains USB Chargers - With Leads

USB POWER ADAPTOR WITH MFI AND LIGHTNING LEAD

Never have charging compatibility issues with your Apple® device with Lightning® connector again. This 12W (2.4A) mains wall charger is licensed under the Apple® MFi program (made for iPod® / iPhone® / iPad®), so it is fully compatible with all Apple® devices with a Lightning® connector, even taking into consideration any future iOS® updates and future model releases. The main charger has a single USB output socket, and is supplied with a 1m Lightning® charge and sync lead which you can also use to sync your device to your home computer.

Made for iPhone | iPad | iPod

SPECIFICATIONS	MP3547
Input	110-240VAC, 50/60Hz
Output	5VDC 2.4A
Lead Length	1m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A	MP3547	$46.90	$42.40	$37.40

Desktop USB Chargers

5 PORT USB DESKTOP CHARGER

Charging and powering your USB devices has never been simpler. Connect this unit to mains power, and you have 5 charging ports! A maximum combined 8A charging current means you can quickly charge your Tablets or Smartphones, while leaving other devices charging too. The integrated stand allows it to lay flat, or stand upright on your desk.

1 YEAR WARRANTY

SPECIFICATIONS	MP3439
Voltage Input	100/240VAC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max.) 1.6A Each Port (Across 5 Ports) 8A (Total)
Dimensions	117(W) x 28(H) x 77(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
5 Port	MP3439	$56.90	$50.90	$44.90

6 PORT USB POWERBOARD

Charges up to 6 USB devices at a time and features a smart charging IC, which identifies the USB device connected and delivers the most suitable current for that device. It is compatible with numerous digital devices such as the most popular brands of MP3/ MP4 players, portable gaming devices, digital cameras, Tablets, and Smartphones, including iPod® / iPhone® / iPad® and Samsung®.

- Mains powered
- Power LED indicator

Note: Accessories not included.

1 YEAR WARRANTY

SPECIFICATIONS	MS4068
Current Output	6.8A (Max) 2 x 2.4A ports, 2 x 1A ports or 4 x 1.2A ports, 2 x 1A
Dimensions	190(L) x 40(W) x 32(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Port	MS4068	$54.90	$49.40	$43.90

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

5 PORT USB CHARGING STATION WITH STORAGE COMPARTMENT

1 YEAR WARRANTY

This USB charging station allows you to position up to 5 tablets or smartphones side by side on top of the unit while charging. Place your cables inside the storage compartment while charging to avoid messy cables lying around. Multiple dividers can be easily positioned in one of the slots to accommodate for a variety of devices It boasts a maximum power output of 2.4A per port, so even power hungry iPads® can be charged. Perfect for the office or typical household kitchen bench or bedside table. Includes 6 dividers and a 12VDC, 4A power supply.

SPECIFICATIONS	WC7766
USB Current Output	2.4A Each Port (Max), 1.64A Each Port (Across 5 Ports) 8.2A (Total)
Power Output	41W
Power Supply	12VDC, 4A
Dimensions	165(L) x 120(W) x 62(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
5 Port	WC7766	$89.90	$80.90	$71.90

FAST WIRELESS QI CHARGER 10W

1 YEAR WARRANTY

Qi charging is an entirely wireless charging method, so there's no fumbling with cables. Using resonant inductance with an enabled device, you simply need to place your phone within a centimetre or two of the charging pad, for charging to automatically begin. Supporting Fast 10W and Standard 5W charging specifications, it's not always as fast as connected charging, but it's VERY convenient. Many new smartphone models now support Qi charging, such as Apple® iPhone®, Samsung Galaxy, and so many more.

- Adaptive fast (10W) & standard (5W) wireless charging
- Check with the manufacturer our website to see if your model is a Qi-Enabled Device
- LED indicator

Note: Phone not included.

SPECIFICATIONS	MB3667
Wireless Charging Standard	QI
Input Voltage	9V 1.8A | 5V 2.0A
Charging Frequency	110-205 KHZ
Charging Efficiency	≥75%
Charging Distance	4-10mm
Dual Charging Modes	Fast (10W) & Standard (5W)
Weight	53g
Dimensions	88(Dia) X 20(H) mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Fast Wireless QI Charger 10W	MB3667	$33.90	$29.90	$26.90

For next day delivery, or Click and Collect, see page 5

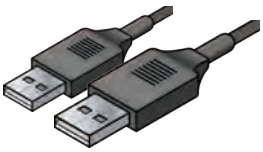
USB leads and adaptors

We pride ourselves on a huge range of USB adaptors and leads, from the latest USB Type-C, conventional USB, and just about everything to adapt between the different standards. The plug drawings are not shown to scale, but shown to assist with plug identification to aid in selection. If you are unable to identify your plug or lead, you can bring it in to your local store for assistance.

USB A

USB A

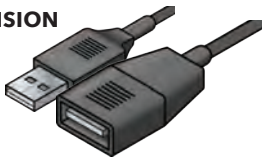
USB 2.0 / 3.0
Plug to plug.



USB 2.0	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7707	$7.90	$6.90	$6.20
1.8m	WC7704	$11.90	$10.70	$9.50
USB 3.0	**Cat.**	**Qty 1+**	**Qty 4+**	**Qty 10+**
1.8m	WC7770	$14.90	$13.90	$11.90

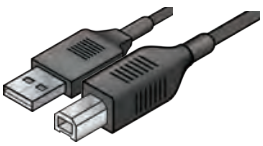
USB A - EXTENSION

USB 2.0



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7708	$7.90	$6.90	$6.20
1.8m	WC7702	$11.90	$10.70	$9.50
3.0m	WC7703	$14.90	$13.30	$11.70

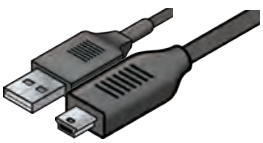
USB B



USB 2.0	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7705	$7.90	$6.90	$6.20
1.8m	WC7700	$11.90	$10.70	$9.50
3.0m	WC7701	$14.90	$13.30	$11.70
5.0m	WC7706	$18.90	$16.70	$14.70
USB 3.0	**Cat.**	**Qty 1+**	**Qty 4+**	**Qty 10+**
1.8m	WC7772	$14.90	$13.90	$11.90

USB MINI B

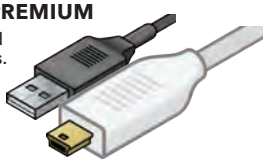
USB 2.0



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC7709	$7.90	$6.90	$6.20
1.8m	WC7710	$11.90	$10.70	$9.50

USB MINI B - PREMIUM

High quality. Gold plated connectors.

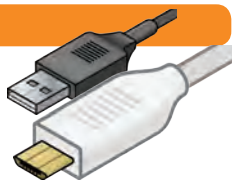


CONCORD

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC7792	$17.90	$15.90	$14.30

MICRO B

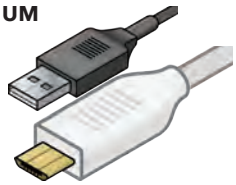
Great value.



	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC7757	$5.60	$5.00	$4.40
0.5m	WC7723	$7.90	$6.90	$6.20
1.8m	WC7724	$11.90	$10.70	$9.50

MICRO B - PREMIUM

High quality. Gold plated connectors.

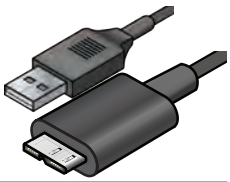


CONCORD

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC7796	$17.90	$15.90	$14.30

USB MICRO B SUPERSPEED

USB 3.0



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7774	$14.90	$13.90	$11.90

LIGHTNING®

Charge or sync your Lightning® socket equipped iPhone®, iPad®, or other Apple® devices. Available in MFi and non-MFi options. MFi approval means you will get maximum compatibility and reliability as it is officially approved by Apple®.

Made for iPhone | iPad | iPod

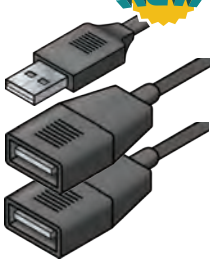
NOT MFI	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC7759	$16.90	$14.90	$13.90
1m	WC7728	$11.90	$10.90	$9.90
MFI	**Cat.**	**Qty 1+**	**Qty 3+**	**Qty 6+**
1m	WC7731	$17.90	$15.90	$13.90
3m	WC7733	$29.90	$26.90	$23.90

DUAL USB CHARGE LEAD

NEW

This USB splitter lead enables you to power or charge two devices from one USB port. One USB 2.0 Type A Plug to two USB 2.0 Type A Sockets on a 300mm length cable.

Note: This lead will only support data transfer on one cable



Length	Cat.	Qty 1+	Qty 4+	Qty 10+
30cm	WC7776	$10.90	$9.90	$8.90

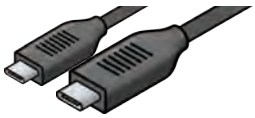
1 year warranty

On all USB leads for peace of mind.

USB Type-C

TYPE-C

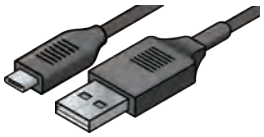
USB 2.0
Plug to plug.



	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WC7920	$28.90	$25.90	$22.90

USB A

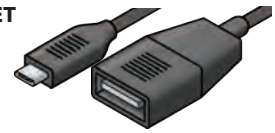
USB 2.0 / 3.0



USB 2.0	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC7758	$14.90	$13.90	$11.90
1.8m	WC7900	$11.90	$10.90	$9.90
USB 3.0	**Cat.**	**Qty 1+**	**Qty 4+**	**Qty 10+**
1.0m	WC7910	$22.90	$20.90	$17.90

USB A SOCKET

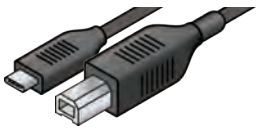
USB 3.0



	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC7909	$13.90	$12.90	$10.90

USB B

USB 2.0



	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7906	$16.90	$14.90	$13.90

MINI B

USB 2.0

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7904	$16.90	$14.90	$13.90

MICRO B

USB 2.0

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC7902	$16.90	$14.90	$13.90

USB MICRO B SUPERSPEED

USB 3.0

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WC7912	$22.90	$20.90	$17.90

LIGHTNING®

Charge or sync your Lightning® socket equipped iPhone®, iPad®, or other Apple® devices. Available in MFi and non-MFi options. MFi approval means you will get maximum compatibility and reliability as it is officially approved by Apple®.

NEW

Made for iPhone | iPad | iPod

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WC7914	$28.90	$25.90	$22.90

USB Power Boosters

POWER BOOSTING LEAD FOR IPOD® / IPHONE® / IPAD®

Typically computer USB ports don't generate enough power to reliably charge some of your Apple® devices. Using this cable you can enhance the power of your iPhone® / iPad® / iPod® with a maximum charging current of 2.4A. Guaranteed compatibility with all iPod®, iPhone® or iPad® with Lightning® connectors.

- Current Output: up to 2.4A

Made for iPhone | iPad | iPod

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC7741	$39.90	$35.90	$31.90

POWER BOOSTING USB A TO USB MICRO B LEAD

Computer USB ports really don't produce enough power to reliably charge your Android® and Windows Smartphones or Tablets. This cable overcomes that problem, allowing you to charge your device up to 2.4A. Supports all Smartphones and Tablets with a USB Micro-B connection.

- Current Output: up to 2.4A

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	WC7743	$24.90	$22.40	$19.90

USB Socket Saver

MICRO USB SOCKET SAVER LEADS - PAIR

Many of us on the Jaycar staff have found that using a USB socket (either standard or USB micro B, etc.) very frequently actually wears the connector out and it becomes unreliable. To reduce this problem, we have introduced a micro USB lead that should remain plugged into the USB device to save wear on the inlet socket. Yes, this means that you will have to put up with the inconvenience of a small lead sticking out of the device but it saves the product from becoming unusable. You can, of course lay the lead down with double-sided tape if you like to create a neater result.

- Micro USB
- 100mm long
- Sold as a pair

Product may vary from the one shown

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
100mm long	WC7756	$10.90	$9.90	$8.90

Mains Adaptors With USB Ports

240V GPO WALL SOCKET WITH 4 X USB 3.15A OUTPUT

This hardwired USB adaptor will fit into a standard GPO wall plate base and give 4 USB power sockets with a total of 3.1 amps. Use it to power or charge pretty much anything that takes power from a USB socket.

- Instructions are included, however, all fixed wiring products must be installed by a licensed electrician!

1 YEAR WARRANTY

	Cat.	Qty 1+
4 Ports	PS4071	$16.90

In-Car Laptop Power Supplies

Keep your laptop or netbook charged on the road. Models to suit most of the mini computers on the market. Check website for compatibility.

90W CAR LAPTOP POWER SUPPLY WITH USB

NEW

Charge your laptop in the car with this compact 90W laptop charger. It is supplied with 12 tips to suit most popular laptops, and the output voltage is automatically selected when you attached the plug that fits your laptop. There is also a USB port to charge other USB devices such as Smartphones, GPS and small tablets.

- 12 tips
- Overload and short circuit protection
- 1.5A USB outlet
- Suits Toshiba, HP, Sony, Asus, Liteon, Samsung, Acer, LG, Dell, Lenovo, and IBM laptops
- 15V to 20V output

SPECIFICATIONS	MP3338
Max. Power Output	90W
Input Voltage	12-16VDC
Output Voltage	15-20V, 6A Max.
USB Port	5V, 1.5A
Weight	146g (Excluding Tips)
Cable Length	2m

Wattage	Type	Cat.	Qty 1+	Qty 3+	Qty 6+
90W	Auto	MP3338	$56.90	$50.90	$44.90

150W - MANUAL

Higher powered for the bigger laptops that draw more power. 8 different plug adaptors to fit most popular models.

- Cigarette lighter cable
- Input voltage: 12VDC
- Selectable output voltage: 15, 16, 18, 19, 20, 22, 24VDC
- Output current: 6A max
- Fuse protected
- Dimensions: 115(L) x 60(W) x 35(H)mm

SPECIFICATIONS	MP3472
Input Voltage	12VDC
Power Output	150W
Output Voltages	15, 16, 18, 19, 20, 22, 24VDC
Output Voltage Selection	Manual
Output Current	6A
Plugs	10
Dimensions	115(L) x 60(W) x 35(H)mm

Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
150W	Manual	MP3472	$89.90	$80.90	$71.90

Jarred Dean likes to

think. possible.

"Mobile internet speeds will increase with the release of 5G. Hands free voice control will move from indoors to outdoors. Either from arriving home in your car asking Google to turn on the lights or open the gate. What I hope for mostly is the improvement in batteries. Smaller higher capacity batteries with quicker recharge time and inprovement in solar."

For next day delivery, or Click and Collect, see page 5

Universal In-Car Chargers

CIGARETTE LIGHTER ADAPTER CABLE

Contains no circuitry and allows you to power 12V devices from your car cigarette lighter socket.

- Cable length 1.8m long
- Fused
- LED power indicator
- Supplied with 8 DC plugs: 2.35 x 0.75, 3.5 x 1.35, 4 x1.7, 5.5 x1.5, 5 x 2.1, 5.5 x 2.5, 2.5mm & 3.5mm. (OD first then ID)

		Cat.	Qty 1+	Qty 3+	Qty 6+
1.2m	1A	PP1996	$11.90	$10.70	$9.50

UNIVERSAL GPS CHARGER WITH DUAL USB OUTPUT

This very handy universal GPS charger not only works as a replacement for an original GPS charger, but having two USB outputs and higher output power offers a bonus - allowing you to charge both your GPS and your mobile phone (or other USB device) at the same time! With 2.4A available from each USB port, it has enough power for even the latest and greatest big screen GPS models, whilst still having enough power left over to charge a second USB device. Supplied with 1.2m USB charging lead and 6 replaceable connectors to suit most GPS models.

- Suitable for: TomTom, TomTom XL, Navman, Garmin, Magellan, Navigon, Falk, Mio, etc.
- Input: 12-24VDC
- Output: 5VDC, 2.4A max per USB port (4.8A total)
- Dimensions: 100(L) x 42(W) x 25(H)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
1.2m	4.8A total	MP3676	$36.90	$32.90	$28.90

3A CAR POWER ADAPTOR WITH USB OUTLET

Select a DC voltage and adaptor tip combination to power or charge a wide range of consumer electronics goods such as personal audio players, digital cameras, handheld gaming consoles, mobile phones, PDAs, PSP, etc. Many modern devices will also charge via the USB outlet.

1 YEAR WARRANTY

SPECIFICATIONS	MP3671
Input Voltage	12VDC
Output Voltage	3, 4.5, 5, 6, 7.5, 9.5, 12VDC
Output Current	3A
USB Output	5VDC, 1A
Power Indicator	LED
Dimensions	80(L) x 76.2(W) x 33(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	MP3671	$36.90	$32.90	$28.90

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

In-Car USB Chargers - With Leads

IN-CAR QUICK CHARGER FOR IPHONE® / IPAD®

A handy in-car charger suitable for charging Apple® brand gadgets such as iPhone® and iPad®, which have the Lightning® connector socket. With 2.1A of charge current available, this in-car charger is capable of charging your Apple® device at full speed, ensuring you get as much charge as possible on your commute.

- Input: 12-24VDC
- Output: 5VDC 2.1A
- Lead length: 900mm with Lightning® connector
- Compatible will all Apple devices with Lightning connectors

	Cat.	Qty 1+	Qty 5+	Qty 10+
2.1A	MB3668	$19.90	$17.70	$15.70

IN-CAR QUICK CHARGER FOR SMARTPHONES

Some Android® based Smartphones and Tablets use the USB Micro-B socket for charging, and also need more current to charge at full speed. With 2.1A of charge current available, this in-car charger is your buddy in the glove box, ensuring you get a full charge into your Smartphone or Tablet on the drive to work. A saviour when you forget to charge overnight.

SPECIFICATIONS	MB3669
Input	12-24VDC
Output	5VDC 2.1A
Lead Length	900mm with USB Micro-B connector

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
2.1A Quickcharge	MB3669	$19.90	$17.70	$15.70

5.4A FIXED USB TYPE-C LEAD & CAR CHARGER

This high powered USB Type-C charger will power and recharge new laptops and phones which feature the Type-C connector. Automatically regulated, delivering up to 5.4A, for quick recharging.

1 YEAR WARRANTY

SPECIFICATIONS	MP3684
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	3A (Type-C), 2.4A (Type-A)
Lead Length	1m
Dimensions	70(D) x 28(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
1 x USB Type-C	MP3684	$39.90	$35.90	$31.90

In-Car USB Chargers

2.4A DUAL USB CAR CIGARETTE LIGHTER ADAPTOR

Simply plugs into your car's cigarette lighter socket to provide a USB charging source for your USB devices as you drive. With 2 x USB sockets and a total of 2.4A combined output power making it suitable for charging two smartphones, tablets or GPS at one time.

SPECIFICATIONS	MP3663
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max), 1.2A Each Port (Across 2 Ports), 2.4A (Total)
Dimensions	60(L) x 30(D)mm

		Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A	2 x USB	MP3663	$12.90	$11.60	$10.30

4.8A DUAL USB CAR CIGARETTE LIGHTER ADAPTOR

Plugs into your car's cigarette lighter socket to provide a USB charging source for your USB devices. The built-in smart charging IC identifies the device connected so that the optimum charging current is supplied to the Smartphone, Tablet, GPS and other USB devices.

SPECIFICATIONS	MP3667
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max), 4.8A (Total)
Dimensions	75(L) x 28(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
4.8A	MP3667	$18.90	$16.90	$14.90

In-Car USB Chargers CONTINUED

DUAL USB 4.8A SMART IC CAR CHARGER WITH LCD VOLTAGE DISPLAY

With two USB outlets capable of a combined 4.8A, you can charge your devices in minimal time. It also provides you constant voltage display on the screen so you can keep an eye on battery voltage. A host of safety features such as over-current protection mean you can plug and play. Connects directly into your cigarette lighter socket.

- Dual high powered USB
- LCD Screen Display the car battery voltage
- Over current protection and over voltage protection

SPECIFICATIONS	MP3692
Output	2.4A x 2 Max, Total 4.8A
Input power	12-24V
Over Current Protection	5.5A
Over Voltage Protection	40V
Weight	0.4g
Dimensions	130(L) x 30(D) x 70(W) mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3692	$22.90	$20.90	$17.90

3A USB A & TYPE-C CAR CIGARETTE LIGHTER ADAPTOR

A USB Type-C plus USB Type-A power source for your car or truck. One port will output 5VDC up to 3A ideal for charging smartphones or tablets. Includes smart charging IC to detect optimum current for connected devices. Allows you to charge Smartphones, Tablets, MacBooks®, Google® Chromebooks® or other devices that use a USB Type-C charging port. Simply plugs into your cigarette lighter socket and away you go.

1 YEAR WARRANTY

SPECIFICATIONS	MP3672
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	3A Type-C (Max), 2.4A Type-A (Max), 3A Shared (Max Across 2 Ports)
Dimensions	50(L) x 28(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
1 x USB Type-C, 1 x USB Type-A	MP3672	$36.90	$33.20	$29.50

3A QUICK CHARGE™ 3.0 USB CAR CIGARETTE LIGHTER ADAPTOR

Qualcomm Quick Charge 3.0

Ultra fast charging can be a life saver when you're in a hurry. With embedded Quick Charge™ 3.0 technology you can charge up to 4-times faster than a standard charger! It will work on car and truck systems (12-24V) and provide you a single USB charging outlet. If your device doesn't support Quick Charge™ technology, it will still charge at up to 2.4A output.

1 YEAR WARRANTY

SPECIFICATIONS	MP3680
Voltage Input	10-30VDC
Voltage Output	3.6-12VDC
Current Output	3.6-6.5VDC @ 3A, 6.5-9VDC @ 2A, 9-12VDC @ 1.5A
Dimensions	51(L) x 28(Dia)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
3A Quick Charge™ 1 x USB	MP3680	$24.90	$22.40	$19.90

5.4A QUICK CHARGE™ 3.0 USB CAR CIGARETTE LIGHTER ADAPTOR

Provides an ultra-fast Quick Charge™ 3.0 port (up to 3A), as well as a standard 2.4A charging port for a combined total charge capability of 5.4A. Suitable for cars and trucks.

SPECIFICATIONS	MP3682
Voltage Input	12-24VDC
Voltage Output	Qualcomm® Quick Charge™ 3.0 3.6-6.5V @ 3A / 6.5-9V @ 2A / 9-12V @ 1.5A & 1 x 5V @ 2.4A Max
Dimensions	70(L) x 28(Dia.)mm

Qualcomm Quick Charge 3.0

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3682	$33.90	$29.90	$26.90

7.2A 4 PORT USB CAR CIGARETTE LIGHTER ADAPTOR

This cigarette lighter adaptor provides 4 USB charging ports, for up to 7.2A combined charging power - that's a lot! Tablets, smartphones, and other high demand devices can then charge at their desired rate, up to 2.4A per port. Works on 12 or 24V systems, so suitable for trucks and boats too.

1 YEAR WARRANTY

SPECIFICATIONS	MP3686
Input Voltage	10-30VDC
Current Output	2.4A (Each Port Max), 1.8A (Across all Ports), 7.2A (Total)
Protection	Overload & Short Circuit
Dimensions	80(L) x 45(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
4 x USB	MP3686	$28.90	$25.90	$22.90

9.6A 4-PORT USB CHARGER WITH BACKSEAT CHARGER

Ingenious! Provides two USB charging ports up-front, and two more charging ports for the back seats. So you can charge your phone or GPS while driving, and the kids can keep their entertainment powered in the back. Each port is rated at 2.4A for fast charging of tablets and power-hungry portable devices. A 1.8m cable connects the backseat unit with the cigarette lighter front unit. Suitable for use in cars and trucks.

1 YEAR WARRANTY

SPECIFICATIONS	MP3690
Input	12-24VDC
Output	4 x 2.4A (9.6A total max.)
Cable	1.8m
Dimensions	53(W) x 79(D) x 18(H)mm (Excluding Cable and Mount)

	Cat.	Qty 1+	Qty 3+	Qty 6+
4 x USB	MP3690	$28.90	$25.90	$22.90

In-Car Power Extenders

CUP HOLDER POWER EXTENDER WITH DUAL USB PORTS 3.1A

A powerful device for cars and trucks. It works on any 12V and 24V system, while providing you with 2 x cigarette lighter sockets, and 2 x USB charging outlets (up to 3.1A combined). A built in 10A fuse keeps things safe, as does the built in over-temp and over-current protection. It conveniently slips into a spare cup holder, to securely stay in place in your vehicle. 600mm cable provided.

- Suitable for cars and trucks
- 3.1A max shared USB charging
- Dual cigarette lighter sockets with individual switches

SPECIFICATIONS	PS2118
Input	12-24VDC
USB Power Output	5VDC @ 3.1A (2.1A + 1A)
Operating Temperature	0°-65°C
Weight	204g
Lead Length	600mm
Dimensions	81mm(Dia.) x 97(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS2118	$22.90	$20.90	$17.90

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

For next day delivery, or Click and Collect, see page 5

Power Banks

ALL IN ONE 9V EMERGENCY CHARGER WITH MICRO USB AND LIGHTNING CONNECTOR

Provides a Lightning™ and Micro USB plug to suit a broad range of phones. Perfect for an emergency bag, camping kit, and will easily slip into your pocket. It's supplied with a 9V battery, but keeping a few spares, or even using Lithium 9V batteries, will further improve its usefulness.

- 6 hours talk time
- 6 days standby
- 4 hours internet use

SPECIFICATIONS	MB3663
Battery	9V (included)
Weight	10g (excluding battery)
Dimensions	20(W) x 25(H) x 28(D)mm (excluding battery, cap on)

	Cat.	Qty 1+	Qty 5+	Qty 10+
9V Emergency Charger	MB3663	$10.90	$9.90	$8.90

2,600MAH METALLIC POWER BANKS

1 YEAR WARRANTY

Ultra compact Aluminium case portable power bank that will effortlessly slip into your pocket or purse. One of the most powerful 'mini' chargers available that will add over one charge to most smartphones. Recharges in approximately 3 hours with a 1A USB power supply (Not included). Supplied with Micro B USB lead.

- Available in 3 colours

SPECIFICATIONS	ALL
Capacity	2,600mAh
Battery Type	Lithium-ion
Output	5VDC/1A
Charge Time	3 hours
Dimensions	96(L) x 22(W) x 22(D)mm

		Cat.	Qty 1+	Qty 10+	Qty 20+
2,600mAh	Silver	MB3792	$16.90	$14.90	$13.90
2,600mAh	Grey	MB3793	$16.90	$14.90	$13.90
2,600mAh	Rose Gold	MB3794	$16.90	$14.90	$13.90

5,200MAH USB PORTABLE POWER BANK

NEW

1 YEAR WARRANTY

Compact with round edges, and able to charge a phone, tablet and other USB devices on the go. It has a capacity of 5,200mAh, a Type-A USB output to connect a cable that suits your device, and four LEDs to indicate the remaining power. Black in colour.

- LED Remaining Power Status
- 5,200mAh Capacity
- Supplied with a micro B USB cable

SPECIFICATIONS	MB3800
Capacity	5,200mAh
Battery Type	Li-ion
Output	5VDC/2A
Charge Time	4 hours
Dimensions	86(L) x 44(W) x 22(D)mm

	Cat.	Qty 1+	Qty 10+	Qty 20+
5,200mAh	MB3800	$22.90	$20.90	$17.90

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twitter.com/jaycarnz

youtube.com/user/JaycarVideo

10,000MAH PORTABLE POWER BANK WITH USB TYPE-C AND DUAL USB-A PORTS

NEW

1 YEAR WARRANTY

With its large 10,000mAh capacity, this power bank will be able to charge your phone, tablet and other USB devices many times over. There are three USB ports, enabling you to charge up to three devices simultaneously. Both Type-A ports supply up to 2.4A (each) which is sufficient to charge large phones and tablets. The Type-C helps reduce charging time by providing up to 3A to compatible devices. Four LEDs in the case indicate the remaining power before you need to charge.

- LED Remaining Power Status
- Dual Type-A Ports
- Type-C USB Port
- 10,000mAh Capacity
- Supplied with micro B and Type-C USB cables

SPECIFICATIONS	BOTH
Capacity	10,000mAh
Battery Type	Li-ion
Output	5V (USB-A1:2.4A, USB-A2:2.4A, Type-C:3A)
Total Shared Output	5V 3A max.
Charge Time	6 hours
Dimensions	86(L) x 62(W) x 22(D)mm

		Cat.	Qty 1+	Qty 10+	Qty 20+
10,000mAh	Black	MB3802	$45.90	$40.90	$35.90
10,000mAh	White	MB3804	$45.90	$40.90	$35.90

15,600MAH PORTABLE POWER BANK WITH USB TYPE-C AND DUAL USB-A PORTS

NEW

1 YEAR WARRANTY

If you love your gadgets and you can't go without them going flat then this is the USB powerbank for you. With an impresive 15,600mAh capacity, it will be able charge your phone, tablet and other USB devices many times over while you're on the go. There are three USB ports, enabling you to charge up to three devices simultaneously. Both Type-A ports supply up to 2.4A (each) which is sufficient to charge large phones and tablets. The Type-C helps reduce charging time by providing up to 3A to compatible devices. Four LEDs in the case indicate the remaining power before you need to charge. Black in colour.

- LED Remaining Power Status
- Dual Type-A Ports
- Type-C USB Port
- 15,600mAh Capacity
- Supplied with micro B and Type-C USB cables

SPECIFICATIONS	MB3806
Capacity	15,600mAh
Battery Type	Li-ion
Output	5V (USB-A1:2.4A, USB-A2:2.4A, Type-C:3A)
Total Shared Output	5V 3A max.
Charge Time	8 hours
Dimensions	150(L) x 62(W) x 22(D)mm

	Cat.	Qty 1+	Qty 10+	Qty 20+
15,600mAh	MB3806	$69.90	$62.90	$55.90

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Power Banks CONTINUED

20,000MAH DUAL USB POWER BANK WITH QUICK CHARGE™ 3.0 & TYPE-C

1 YEAR WARRANTY

Offering an enormous 20,000mAh battery capacity this is a one stop charging solution for all USB power needs. Ultra convenient and with a smooth metal finish this is a perfect addition to every backpack, handbag or briefcase. Equipped with two Qualcomm® Quick charge™ 3.0 USB A outlets and an additional USB C outlet this will charge average phones 75% faster and many times over! Recharge the unit via the Micro USB or USB Type-C port (works as input and output).

Qualcomm Quick Charge 3.0

SPECIFICATIONS	MB3797
Capacity	20,000mAh
Battery Type	Lithium-ion
Output	QC3.0 Port1: 3.6-6.5V/3A, 6.5-9V/2A, 9-12V/1.5A QC3.0 Port2: 3.6-6.5V/3A, 6.5-9V/2A, 9-12V/1.5A USB Type C: 5V/3A
Charge Time	10+ hours
Dimensions	177(L) x 81(W) x 23(D)mm

		Cat.	Qty 1+	Qty 10+	Qty 20+
20,000mAh	Black	MB3797	$94.90	$84.90	$75.90

4,000MAH SOLAR RECHARGEABLE POWER BANK

1 YEAR WARRANTY

Power banks are only good as long as they're already charged, but this one charges itself! A huge 4,000mAh internal battery bank provides you with loads of power for device recharging via the USB charging outlet, up to 2A. The unit can be recharged using the MicroUSB cable provided, or self-charge with its integrated solar panel. Solar charging is probably more considered the backup or emergency plan though, as it can take a few days (about 31 hours) to fully charge. However if you're leaving the unit on a dashboard or in a sunny window when not in use, it'll keep itself ready to go any time!

- Made of eco-friendly silicone rubber and ABS + PC material
- Suitable for charging iPhones®, iPads®, Android® phones, GPS devices, cameras, etc.
- Slim and light weight, charge through solar panel, USB output 2A

SPECIFICATIONS	MB3790
Capacity	4,000mAh
Battery Type	Lithium Polymer
Output	5VDC/2A
Charge Time	USB: 3 hours / Solar: 31 hours
Dimensions	126(L) x 66(W) x 11(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 20+
4,000mAh	MB3790	$45.90	$40.90	$35.90

p.397 - new solar mobile charger

Peter King likes to

think. possible.

"I have just bought PuppyGo for my children and grandchildren, as a great toy and an inspiration to kindle their further interest in STEM. I see that interest evolving into study of real robotic life-size assistants readily accepted by those who follow technology in the future."

8,000MAH WEATHERPROOF POWER BANK WITH SOLAR RECHARGING

1 YEAR WARRANTY

It has a huge 8,000mAh Li-po battery inside, but that's just the beginning. The shock resistant case is rated at IP54 to protect against dust and rain, and also features a torch / SOS / caution light. A large solar panel provides emergency / powerless internal battery recharging when you have no other power available, and you can recharge your own devices using one of two USB outlets. It's lightweight and powerful, and even comes with a carabiner to clip to your hiking bag (or bug out gear!), so you'll never leave it behind.

- Weather, dust, shock resistant IP54 rated case.
- Overcharge, over-discharge, overvoltage, overcurrent, overpower, temperature, short-circuit, and anti-discharge protection
- Emergency solar charging

SPECIFICATIONS	MB3791
Capacity	8,000mAh
Battery Type	Lithium Polymer
Output	Port 1: 5VDC/2.1A / Port 2: 5VDC/1A
Charge Time	USB: 5 hours / Solar: 62.5 hours
Dimensions	140(L) x 75(W) x 17(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 20+
8,000mAh	MB3791	$79.90	$71.90	$63.90

42,000MAH PORTABLE POWER CENTRE

1 YEAR WARRANTY

This is a fantastic product. Firstly, it is a multipurpose power bank that can be charged from 240V mains or a solar panel via built-in MPPT charger. In other words, it can provide a campsite power completely independent from AC power charging, but provides AC and DC power itself!

This is what it does:

- 100W 240V Inverter (modified sine wave)
- 12VDC to 3 separate points. 9-12V at up to 15A. Ideal for a low voltage lighting system
- 3 x USB charging ports (Up to 6A shared)
- Bright LED camping light built-in
- Supplied with a solar panel charging lead (MC4 connectors), in-car charger adaptor, and mains charger.

SPECIFICATIONS	MB3748
Battery	Lithium-ion
Capacity	42,000mAh
Output	1 x 240VAC @ 100W (Inverter), 1 x 9-12VDC @ 15A, 3 x USB A (6A Shared)
Charge Time	15VDC / 2A, 7-8hrs
Dimensions	195(W) x 171(H) x 90(W)mm, 1.58kg

	Cat.	Qty 1+	Qty 10+	Qty 20+
42,000mAh Portable Power Centre	MB3748	$289.00	$259.00	$229.00

p.397 - portable solar package

Tony Cousins likes to

think. possible.

"At present my smartphone can read my heartrate and send the results by email to any email address. In 5 to 10 years all my vital signs will be available so I will keep to my optimum healthy function in real time."

Mains Laptop Power Supplies

Buying an extra power supply saves the hassle of taking the power supply everywhere you take your laptop. Keep one at the office and one at home. The original power supply on your laptop may have failed, so get a replacement at a fraction of the cost of a genuine part. There's a model compatible with most laptops on the market. See our website for compatibility charts.

Manual Type: Switch the output voltage to suit your laptop
Automatic Type: Models switch voltage automatically depending on the connector used.
Some models display the voltage on a LED or LCD display.
- All models feature short circuit and overload protection
- 1 Year warranty on all laptop supplies

1 YEAR WARRANTY

60W TYPE-C AUTOMATIC

MP3340

65W - SLIMLINE SUITS ULTRABOOK™ - FIXED

MP3321

90W - MANUAL

MP3476

90W - AUTOMATIC

MP3326

Now supplied with more tips for the same price! See website for updated pics.

90W - SLIMLINE - FIXED

MP3332

120W - SLIMLINE - FIXED

MP3329

144W - MANUAL

MP3471

SPECIFICATIONS	MP3340	MP3321	MP3476	MP3326	MP3332	MP3329	MP3471
Input Voltage	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC
Power Output	60W	65W	90W	90W	90W	120W	144W
Output Voltages	5/12/14/15/20VDC	19VDC	12/14/15/16/18/18.5/19/19.520/21/22VDC	15/16VDC, 19VDC	19VDC	19VDC	15/16, 18/19, 20, 22, 24VDC
Output Voltage Selection	Automatic	Fixed	Manual	Automatic	Fixed	Fixed	Manual
Output Current	3A	3.15A	12V @ 6A, 14-16V @ 5A, 18-20V @ 4.5A, 21-22V DC @ 4A	15/16V@4.7A, 19V@4.2A	4.4A	5.7A	8.5A, 8.0A, 7.5A, 6.5A, 6.0A
USB Output	5VDC @ 2A	5VDC @ 1A	-	5VDC @ 2.1A	5VDC @ 2.1A	5VDC @ 2.1A	-
Plugs	1	10	11	13	11	10	10
Dimension (L)X(W)X(H)	112 x 69 x 16mm	113 x 56 x 15mm	150 x 58 x 37mm	126 x 55 x 31mm	110 x 70 x 16mm	123 x 75 x 19mm	180 x 63 x 40mm

Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
60W	Auto	MP3340	$69.90	$62.90	$55.90
65W	Fixed - Slim	MP3321	$74.90	$67.40	$59.90
90W	Manual	MP3476	$94.90	$85.40	$75.90

Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
90W	Auto	MP3326	$99.90	$89.90	$79.90
90W	Fixed - Slim	MP3332	$109.00	$97.90	$86.90
120W	Fixed - Slim	MP3329	$129.00	$115.90	$102.90
144W	Manual	MP3471	$149.00	$133.90	$120.90

p.335 - car laptop power supplies

45W 5 - 19.5VDC SWITCHMODE PLUGPACK

NEW

1 YEAR WARRANTY

This universal power supply suits a variety of applications from powering small devices that run on 5V, 9V, 10.5V, 12V or 15V up to laptops that run on 19.5V. Voltage is manually selectable and there are 8 detachable adaptors to fit the major manufacturers' DC power input sockets, including laptops from Dell, Toshiba, IBM, Lenovo, HP, Acer, and Samsung. The power supply has a slim plug-in design with LED power indicator, reliable short circuit and overload protection, and a generous length lead.
- Plug Pack Design
- 8 Detachable Plugs and 6 output selections
- Short circuit and overload protection
- High efficiency
- Low energy consumption

Plug Dimensions:
AA: 1.0 x 3.0mm
AG: 0.6(pin) x 4.5mm
AH: Rectangular
R: 1.7 x 5.5mm
V: 1.7 x 4.0mm
P: 2.5 x 5.5mm
T: 1.7 x 4.8mm
G: 0.7 x 2.5mm

Voltage VDC	Cat.	Qty 1+	Qty 5+	Qty 10+
5-15V 3A, 19.5V 2.3A	MP3319	$56.90	$50.90	$44.90

tech talk — Our Laptop Power Supplies

Looking at our large range of laptop power supplies, it might be a little overwhelming when trying to decide which is the best one to choose, but really it's quite simple. The easiest way to work out what you need it to look at the rating label on your original laptop power supply, and take note of the OUTPUT voltage and current (for example, 20V and 3.25A). Now multiply these together to get the POWER rating you need (in our example, 20 x 3.25 = 65 Watts). Then you just need to select a model that has an equal or higher power rating to your original power supply, in our given example this would be MP3321 65W Universal Slimline Laptop Power Supply. Then it's just a matter of checking that the selected model is compatible with your brand of laptop, which can be done by looking on our website. But if all this is too confusing - never fear, just bring your laptop and the old power supply into your nearest store and our friendly staff will assist.

find out more in store
Our staff offer friendly and helpful service. We're here to help.

Uninterruptible power supplies (UPS) - AC:

Critical systems should ideally be connected to some form of backup power in the event of a blackout, power surge or brownout. A fault at the grid may drop the voltage at the mains, which could cause some systems to shutdown, reset, lose data or worse, resulting in thousands of dollars of damage (both material and immaterial). These line interactive units give you a good balance between real time system protection and power redundancy when mains electricity is down or experiencing reliability issues. During mains voltage sags both units will deliver a steady voltage, keeping critical systems running properly. For a total power blackout the units can keep your systems running long enough to save important data or cleanly shutdown connected devices.

pick me UPS Backup Time Test Results

	Maximum load			Back up mode		Backup time - typical		
	VA	W	Internal SLA Battery	Output Waveform	Transfer Time (mS)	Small PC (65W - 70W)	Medium PC and LCD Monitor (130 - 140W)	Large PC plus LCD Monitor (190 - 210W)
MP5224	600	300	12V/7Ah	Modified Sine Wave	< 10	31 mins	11 mins	4.5 mins
MP5205	650	390	12V/7Ah	Modified Sine Wave	< 10	25 mins	9 mins	5 mins
MP5207	1500	900	12V/9Ah	Modified Sine Wave	< 10	94 mins	49 mins	31 mins

LINE INTERACTIVE UPS - 600VA

This self contained UPS is ideal for the home PC, point of sale machines, or workstations and peripherals. Features include intelligent CPU control, highly synchronous transfer (less than 6ms), automatic battery charging in UPS off mode, surge protection, voltage overload/low voltage protection and much more. There is a USB socket for connecting to your PC and software is provided to enable automated shut down, as well as RJ12 sockets for telephone protection.

SPECIFICATIONS	MP5224
Rating	600VA 300W
SLA Battery	12V/7.0Ah battery
Supply Voltage / Output Voltage	100-240VAC / 100-240VAC
Backup Time	Up to 5 mins
Recharge Time	90% capacity after 8 hours
Output Waveform	Sine Wave (Mains), Modified Sine Wave (Battery)
Power Outlets	3 UPS, 3 Mains (all surge protected)
USB Output / RJ12 Input-Output	1 / 1
Software Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Linux
Dimensions	280(W) x 185(D) x 95(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
300W - 600VA	MP5224	$179.00	$160.90	$142.90

LINE INTERACTIVE UPS WITH LCD - 650VA & 1500VA

Features an auto shutdown when no load is detected, audible alarms for low battery, self diagnosis on boot, and intelligent battery management. Both models feature an easy to read LCD which displays battery and load values as a percentage and input/output voltages. At the rear of the unit are 2 x RJ11 sockets for Telephone/Fax protection and a USB socket for connection to your PC for use with the power management software.

SPECIFICATIONS	BOTH MODELS	
Usage	Home PC, SOHO	
Type	Line interactive	
Status Display	LCD	
Backup Time Full Load Mins	10 - 20 minutes	
Input Voltage	180 - 230VAC	
Recharge Time	90% Capacity after 8 Hours	
Communication	USB	
Software Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Linux	
SPECIFICATIONS	MP5205	MP5207
Short Circuit Protection	Yes	No
Internal SLA battery	1 x 12V 7Ah	2 x 12V/8Ah
Dimensions	340 (L) x 95(W) x 165(H)mm	325(L) x 125(W) x 220(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
390W - 650VA	MP5205	$169.00	$151.90	$134.90
900W - 1500VA	MP5207	$399.00	$359.00	$319.00

Mini UPS

30W DC MINI UPS

NEW

A compact DC UPS designed to connect inline with your ordinary 12VDC mains power adaptor. In the case of a power outage, the internal battery will keep your equipment operating for longer. Three interchangeable DC connectors are supplied to suit a range of devices such as a modem, network switch, router, video device, surveillance systems or lights. An integrated smart charger ensures the internal 18650 Li-ion batteries are charged, and adjusts the charge current based on the current draw to the device you are powering. The rated output is 2.5A at 12V but 3A can be provided for a short time. Four status LEDs indicate the UPS charge status, and safety features include over-charge, over-discharge, over-current, and short-circuit.

SPECIFICATIONS	MP5240
Input:	11.8V to 12.5VDC (2.1mm DC Socket)
Output:	2.5A (3A max)
No Load Voltage:	12.2V
Battery Type:	18650 Li-ion (built-in)
Charging Current:	0.8A
Weight:	260g
Dimensions:	138(L) x 60(W) x 24(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 20+
	MP5240	$79.90	$71.90	$63.90

Rack Mount PDU & Patch Panels

6 WAY PDU WITH SURGE & OVERLOAD PROTECTION

Power up to six components in your rack setup. The board has 6 conventional 240V outlets and fits any standard 19" rack. It actually takes a little more than one rack unit, but mounts on 1U centres

1 YEAR WARRANTY

- 1U rack space
- Overload protected
- Surge Protection
- 10A output
- Lead length: 1.6m
- Dimensions: 482(W) x 45(H) x 46(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS4094	$94.90	$85.50	$76.90

BALL BEARING SLIDING RACK SHELF

Ideal for mounting computer keyboards or other equipment that needs to be accessed easily. The slides have ball bearing runners for smooth operation & will take a load of 20kg.

- Dimensions: 483(W) x 52(H) x 350(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB5450	$119.00	$106.95	$94.95

For next day delivery, or Click and Collect, see page 5

"plugpacks" & small scale power supplies:

When we first produced the Jaycar catalogue over 35 years ago, all power supplies were fitted with a 240V stepdown transformer. The transformers could be quite small - down to 3VA (3 watts approx.). They were relatively heavy (some would fall out of a power point) and all were fairly inefficient. Today, almost no plugpack or small scale power supplies have transformers, except AC-to-AC plugpack-type adaptors, the rest use what is called Switchmode technology. "Switchmode" type power supplies are in fact very clever. If you don't know how they work, look them up on Google, etc.. There is not enough room here to give you a primer. Not only are they lighter and far more efficient than transformer-type ("linear") power supplies, they are capable of providing far more DC power in a smaller size. I have a switchmode 'stick' welder at home that is about the size of a loaf of bread but will deliver up to 120A to weld very heavy steel objects indeed. The welder weighs about 5kg and replaced a transformer model that weighed over 100kg.

A switchmode power supply will also typically recognise the mains voltage that is being fed to them. You can, for example, take an AU/NZ 230/240V AC adaptor and use it on 110-115 volts overseas (with a plug pin adaptor) and not need to buy a special 115V unit. (Always check that your adaptor will do this of course).

All-in-all, switchmode technology is a clear winner. They are generally also more reliable and offer similar levels of dielectric isolation to transformer types.

Gary Johnston.

pick me — AC Adaptors - Up To 1.7 AMP

Fixed voltage · Multi voltage · Unregulated · Desktop style

VOLTAGE & AMPS	400mA	500mA	550mA	600mA	800mA	1A	1.2A	1.25A	1.35A	1.5A	1.7A
3.0VDC						MP3310				MP3312	
4.5VDC						MP3310				MP3312	
5.0VDC						MP3144 MP3310				MP3312	
6.0VDC					MP3145	MP3310				MP3312	
7.5VDC					MP3310					MP3312	
9.0VDC		MP3146	MP3280		MP3310	MP3312				MP3314 MP3318	MP3484
9.0VAC						MP3027					
12VDC	MP3147 MP3282	MP3011		MP3310		MP3312				MP3486 MP3314 MP3318	
12VAC						MP3026					
13.5VDC										MP3318	
15VDC										MP3318	
15VAC										MP3059	
16VAC								MP3021			
18VDC							MP3318				
20VDC							MP3318				
24VDC						MP3318		MP3494			
24VAC						MP3032					
48VDC								MP3256	MP3249		

pick me — AC Adaptors - From 2 AMP To 10 AMP

Fixed voltage · Multi voltage · Unregulated · Desktop style

VOLTAGE & AMPS	2.0A	2.1A	2.2A	2.25A	2.5A	2.7A	3A	3.42A	5A	6.25A	8.5A	10A
3.0VDC		MP3314		MP3316	MP3308							
4.5VDC		MP3314		MP3316								
5.0VDC		MP3314		MP3316	MP3308		MP3480 MP3319					
6.0VDC		MP3314	MP3482	MP3316	MP3308							
7.5VDC		MP3314		MP3316								
9.0VDC				MP3316	MP3308		MP3496 MP3319					
9.0VAC												
12VDC				MP3316	MP3490 MP3308		MP3319		MP3242 MP3243 GH1379 MP3252		MP3258	MP3241
12VAC											MP3043	
13.8VDC					MP3308							
15VDC	MP3492						MP3319					
19VDC							MP3319	MP3246				
24VDC					MP3254	MP3248						
24VAC										MP3045		

Switchmode AC Adaptors

They are extremely light and compact; enough to snugly and neatly fit side by side on a powerboard - no more wasted AC outlets! They incorporate high-efficiency circuitry, built in EMI filter, short circuit protection, over current protection and thermal shutdown capability.

Ideal for use with powerboards.

5 WATT - ULTRA-SLIM

- Input: 100-240VAC 50/60Hz
- Fit side-by-side on a powerboard
- Supplied with 7 plugs
- 1.7m lead
- Meets MEPS requirements

1 YEAR WARRANTY

Voltage VDC	Current Amps	Cat.	Qty 1+	Qty 5+	Qty 10+
5	1	MP3144	$21.90	$19.30	$16.90
6	0.8	MP3145	$21.90	$19.30	$16.90
9	0.5	MP3146	$21.90	$19.30	$16.90
12	0.4	MP3147	$21.90	$19.30	$16.90

15 WATT - SLIM HIGH POWER

Regulated output voltage, small size and higher power output make these AC adaptors suitable for thousands of different applications.

- Input: 100-240VAC 50/60Hz
- Fit side-by-side on a powerboard
- Supplied with 7 plugs
- Meet MEPS requirements

1 YEAR WARRANTY

Voltage VDC	Current Amps	Cat.	Qty 1+	Qty 5+	Qty 10+
5	3.0	MP3480	$31.90	$28.70	$25.50
6	2.2	MP3482	$31.90	$28.70	$25.50
9	1.7	MP3484	$31.90	$28.70	$25.50
12	1.5	MP3486	$31.90	$28.70	$25.50

25 WATT - EXTRA HIGH POWER

- Input: 100-240VAC 50/60Hz
- Huge output power
- Supplied with 7 plugs
- Meet MEPS requirements

1 YEAR WARRANTY

Voltage VDC	Current Amps	Cat.	Qty 1+	Qty 5+	Qty 10+
9	3.0	MP3496	$36.90	$33.20	$29.50
12	2.5	MP3490	$36.90	$33.20	$29.50
15	2.0	MP3492	$36.90	$33.20	$29.50
24	1.25	MP3494	$36.90	$33.20	$29.50

Multi - Voltage

SWITCHMODE PLUGPACKS WITH USB OUTLETS

These switchmode plugpack adaptors are slim in size, lightweight, and feature manually selectable variable voltage outputs. All are MEPS compliant and come supplied with 7 plugs and a USB output socket. (MP3318 does not include USB socket)

Five models available:

7.2W 3-12VDC	CAT. MP3310
12W 3-12VDC	CAT. MP3312
18W 3-12VDC	CAT. MP3314
27W 3-12VDC	CAT. MP3316
25W 9-24VDC	CAT. MP3318

1 YEAR WARRANTY

SPECIFICATIONS	MP3310	MP3312	MP3314	MP3316	MP3318
Input Voltage	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC
Output Voltage	3, 4.5, 5, 6, 7.5, 9,12VDC	3, 4.5, 5, 6, 7.5, 9,12VDC	3, 4.5, 5, 6, 7.5, 9,12VDC	3, 4.5, 5, 6, 7.5, 9,12VDC	9, 12, 13.5, 15VDC @ 1.5A, 18, 20VDC @ 1.2A, 24VDC @ 1A
Output Current	600mA (max)	1000mA (max)	1500mA (max)	2250mA (max)	1500mA (max)
Dimensions	69(L) x 39(W) x 31(H)mm	75(L) x 44(W) x 44(H)mm	82(L) x52(W) x 45(H)mm	80(L) x 65(W) x 50(H)mm	96(L) x 50(W) x 30(H)mm

Voltage VDC	Cat.	Qty 1+	Qty 5+	Qty 10+
3-12	MP3310	$24.90	$22.40	$19.90
3-12	MP3312	$29.90	$26.90	$23.70
3-12	MP3314	$36.90	$33.20	$29.50
3-12	MP3316	$41.90	$37.90	$33.40
9-24	MP3318	$41.90	$37.90	$33.40

Power Supply Accessories

IN-LINE LOW VOLTAGE SWITCH

Simply connect your plug pack adaptor into this in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off. 2.1mm DC plug & socket - rated at 24VDC at 2 amps.

Product may vary from the one shown.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SK0998	$9.90	$8.50	$7.50

7 PLUG DC WIRING KIT - 1.8M

Includes the same socket and 7 DC plugs as supplied with our range of switchmode AC plugpack adaptors.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP1980	$10.90	$9.80	$8.70

See our website or contact us for more technical data, safety approvals etc.

THE 7 PLUGS SUPPLIED WITH SWITCHMODES ARE SHOWN HERE

For next day delivery, or Click and Collect, see page 5

Switchmode AC Adaptors CONTINUED

DC OUTPUT - REGULATED 12VDC 500MA

- CCD Camera Power Supply
- Terminates to a 2.1mm ID / 5.5mm OD DC plug, centre positive.

1 YEAR WARRANTY

Voltage VDC	Current AMPS	Cat.	Qty 1+	Qty 5+	Qty 10+
12	0.5	MP3011	$24.90	$22.40	$19.90

SWITCHMODE MAINS ADAPTOR 3 - 13.8VDC 2.5A

Variable desktop supply with binding post and 7 DC plugs.
1.5m lead - interchangeable plugs.

SPECIFICATIONS	MP3308
Output Voltage	3, 5, 6, 9, 12, 13.8VDC
Output Current	2.5A max
Dimensions	140(L) x 80(W) x 42(H)mm

Voltage VDC	Current Amps	Cat.	Qty 1+	Qty 5+	Qty 10+
13.8	2.5	MP3308	$47.90	$42.90	$38.40

45W 5 - 19.5VDC SWITCHMODE PLUGPACK

NEW

1 YEAR WARRANTY

This universal power supply suits a variety of applications from powering small devices that run on 5V, 9V, 10.5V, 12V or 15V up to laptops that run on 19.5V. Voltage is manually selectable and there are 8 detachable adaptors to fit the major manufacturers' DC power input sockets, including laptops from Dell, Toshiba, IBM, Lenovo, HP, Acer, and Samsung. The power supply has a slim plug-in design with LED power indicator, reliable short circuit and overload protection, and a generous length lead.

- Plug Pack Design
- 8 Detachable Plugs and 6 output selections
- Short circuit and overload protection
- High efficiency
- Low energy consumption

Plug Dimensions:
AA: 1.0 x 3.0mm
AG: 0.6(pin) x 4.5mm
AH: Rectangular
R: 1.7 x 5.5mm
V: 1.7 x 4.0mm
P: 2.5 x 5.5mm
T: 1.7 x 4.8mm
G: 0.7 x 2.5mm

Voltage VDC	Cat.	Qty 1+	Qty 5+	Qty 10+
5-15V 3A, 19.5V 2.3A	MP3319	$56.90	$50.90	$44.90

p.343 - plugpacks with USB output

Transformer Type AC Adaptors

Most adaptors are supplied with seven different plugs which suit most applications. All are Electricity Authority (SAA) approved.

AC OUTPUT - NON REGULATED - SINGLE VOLTAGE

- Regulated AC output in a plugpack is not currently feasible

MP3027

MP3032

Voltage (AC)	Current (A)	Cat.	Qty 1+	Qty 5+	Qty 10+
9	1.0	MP3027	$29.90	$26.90	$23.90
12	1.0	MP3026	$33.90	$29.90	$26.90
15	1.5	MP3059	$33.90	$29.90	$26.90
24*	1.0	MP3032	$29.90	$26.90	$23.90

Stripped and tinned termination

16VAC 1.25 AMP ALARM SUPPLY

Designed for use with many house alarm panels. Supplied with three metres of cable for connection to alarm.

- Dimensions: 55(W) x 90(H) x 60(D)mm
- Terminated with bare ends

Voltage (AC)	Current (A)	Cat.	Qty 1+	Qty 5+	Qty 10+
16	1.25	MP3021	$29.90	$26.90	$23.90

NBN Power Supplies

NBN/UFB REPLACEMENT POWER SUPPLY 12V 2.5A

Plug-in replacement power supply for direct connection into your NBN connection box. No wiring required as it plugs straight into the mains power and connects to the 8 pin NBN connection box power port. Features overload and short circuit protection. Compliant with Australian and New Zealand Safety Standards.

- Input: 100 - 240VAC 50/60Hz
- Output: 12VDC 2.5A

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3538	$45.90	$40.90	$35.90

NBN/UFB POWER CONNECTOR LEAD WITH BARE ENDS 300MM

This NBN replacement connector is a Molex 8 Pin plug pre-assembled with 2C 30cm cable with bare ends. Simply clip the connector of any standard 12V 2.5A plug pack and solder/ heat shrink this connector on. This power supply can now be used to bypass your NBN battery back-up.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP2028	$5.60	$5.00	$4.40

Desktop Style AC Adaptors

These products meet the requirements of Energy Star, the European Commission Code of Conduct, and of course California's legislation, suppliers of electronic equipment requiring an external power supply can ship their products worldwide without needing to understand the complex new systems.

60W - 12V, 19VDC & 45W 24VDC

1 YEAR WARRANTY

Versatile switchmode power supplies in a range of different configurations. All have high output currents and are low-profile for easy mounting.

- Each requires a separate IEC 240VAC lead - CAT PS4106
- Output cable terminated to fixed 2.5mm DC plug except for MP3243 which includes 5 output plugs

Voltage VDC	Current (A)	Cat.	Qty 1+	Qty 5+	Qty 10+
12	5	MP3242	$71.90	$64.50	$57.50
12 (5 plugs)	5	MP3243	$77.90	$69.90	$62.50
19	3.42	MP3246	$71.90	$64.50	$57.50
24	2.7	MP3248	$71.90	$64.50	$57.50

65W - 48VDC

48V power supply specifically designed for power over Ethernet applications.

SPECIFICATIONS	MP3249
Voltage	90 - 264VAC
Output Voltage	48V @ 1.35A
Power Output	65W Max.
Over Voltage Protection	Shutdown latch mode
Over Current Protection	2 step controlled current source
Short Circuit Protection	Built-in
Efficiency	85% min. at full load

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MP3249	$71.90	$64.50	$57.50

p.340 - replacement laptop power supplies

Desktop Style AC Adaptors

120W 12VDC 10A DESKTOP STYLE SWITCHMODE SUPPLY

1 YEAR WARRANTY

High current switchmode desktop power supply. Suitable for various power requirements, including large surveillance systems to replace a number of smaller plugpacks. DC splitter cables available separately.

- Includes IEC power lead
- Output cable terminated to fixed 2.1mm DC plug

SPECIFICATIONS	MP3241
Input Voltage	220-240VAC
Output Voltage	12VDC
Output Current	10A
Output Connector	2.1mm DC plug
Output Cable Length	1.2m
Dimensions	174(L) x 72(W) x 44(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
120W	MP3241	$99.90	$89.90	$79.90

60W - 12VDC 5A

- Switchmode

1 YEAR WARRANTY

SPECIFICATIONS	GH1379
Input	220 - 240VAC
Output	12VDC @ 5 amps
Dimensions	160(L) x 85(W) x 40(H)mm
Input Lead Lengths	1.2m
Termination	2 pin connector

	Cat.	Qty 1+	Qty 5+	Qty 10+
60W	GH1379	$42.90	$38.60	$34.30

240 - 115V Stepdown Transformers

ISOLATED STEPDOWN TRANSFORMERS

1 YEAR WARRANTY

Quality fully-enclosed stepdown transformer with fold up metal carry handles, approved 3 wire power cord & US style 2 pin 110 - 115V socket.

- Electrically isolated between primary and secondary
- Protective earth carried through to output
- Useable with precision electric & electronic appliances.
- Compact, excellent, safe & robust construction - steel case.
- DO NOT compare these to cheap, non isolated units. Your life is too precious!

Includes a resettable circuit breaker instead of fuse. Now you are not tempted to replace the fuse with a piece of coathanger wire.

Note: Due to heavy weight (11kgs) please check for freight costs. These devices are not switchmode, they are AC to AC.

MF1080 MF1082

MF1084 MF1086

SPECIFICATIONS	RATING	DIMENSIONS	WEIGHT
MF1080	120VA (watts) 1.0 amp	125(W) x 74(D) x 90(H)mm	2.4kg
MF1082	250VA (watts) 2.2 amps	133(W) x 81(D) x 98(H)mm	3.2kg
MF1084	500VA (watts) 4.2 amps	158(W) x 100(D) x 120(H)mm	6kg
MF1086	1000VA 8.6 amp	195(L) x 120(W) x 140(H)mm	11kg

		Cat.	Qty 1+	Qty 2+	Qty 4+
240 - 115V	120W	MF1080	$139.00	$124.90	$110.90
240 - 115V	250W	MF1082	$199.00	$178.90	$158.90
240 - 115V	500W	MF1084	$329.00	$289.00	$259.00
240 - 115V	1000W	MF1086	$459.00	$409.00	$359.00

tech talk Stepdown Transformers

A word on isolation. This means that:
The primary (240V) & secondary (115V) are totally electrically isolated (Dieletric isolation). This is the safest way of making a mains voltage conversion. We recommend this type of transformer whenever the application is medical or medically related or where the secondary equipment is to be operated in or near water or high moisture environments. Note the 240V earth is carried through to the 115V socket earth. As a further safety measure we now supply the ISOLATED units with resettable circuit breakers.

50 WATT - 240VAC TO 115VAC

1 YEAR WARRANTY

Includes overheat protection. If the unit gets too hot, the thermal fuse will open, then close after unit cools down, restoring operation. Two pin US socket on unit for 110V appliance and cord plug for 240V power.

- This is not dielectrically isolated. (Auto transformer type)
- Not for use in wet areas

	Cat.	Qty 1+	Qty 2+	Qty 4+
50W	MF1091	$59.90	$53.90	$47.90

Variac

0-260VAC VARIABLE LABORATORY AUTO TRANSFORMER - 500VA

1 YEAR WARRANTY

The variable autotransformer (Variac is the trade name of a popular brand) is one of the most useful and efficient devices ever invented for the control of AC voltage and of voltage-dependent parameters such as current, power, temperature, light intensity, motor speed etc. It enables the AC input to a mains powered appliance to be easily varied from 0 to full line voltage (or greater).

Encased in heavy-duty steel housing it also features on/off switch, output-voltage meter, mains-supply lead and standard 3-pin power output. A must for testing appliance performance under real (simulated) mains fluctuations.

- Now supplied with slow blow fuses for extra reliablity

Note: These devices are not switchmode, they are AC to AC.

NOT DIELECTRICALLY ISOLATED

SPECIFICATIONS	MP3080
Rated power handling	500 VA (fused)
Input Voltage	240 VAC @ 50Hz
Output Voltage	0 ~ 260 VAC @ 50Hz
Dimensions	165(D) x 120(W) x 160(H)mm

		Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC	500VA	MP3080	$229.00	$199.00	$179.00

Garden Lighting Transformers

1 YEAR WARRANTY

Designed to power 12V and 24V garden lights from mains power. All output voltages are AC, not DC.

Note: These devices are not switchmode, they are AC to AC.

240V TO 12VAC 105 WATT - INDOOR

It will power 2 x 50W halogen globes or 5 x 20 watt. Ideal for 5 x 20W pathway lights, for example. Transformer must be used inside.

- 135(L) x 83(W) x 70(H)mm
- Output is via screw terminals
- 4 holes for easy screw mounting

CAT. MP3043

MP3043

240V TO 24VAC 150 WATT - INDOOR

All globes must be 24V rated

- Output 6.25 amps CAT. MP3045

MP3045

	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
12VAC 105W	N15653	MP3043	$47.90	$42.90	$38.40
24VAC 150W	N16803	MP3045	$74.90	$67.40	$59.90

For next day delivery, or Click and Collect, see page 5

Enclosed Industrial Standard Switchmode Power Supplies

A range of highly efficient, fixed voltage, no load low power (<0.2~0.75W) consumption enclosed power supplies for a wide range of industrial applications. They are more compact and more efficient than previous generation models. The 30mm low profile design allows them to be built into 1U rack enclosures, while the metallic mesh case enhances the heat dissipation. They are capable of operating at altitudes up to 5000 metres. Not only do they satisfy every kind of industrial related application but also can be utilised for household appliances thus accounting for a broader coverage across diverse industries. See our website for full datasheets on each model.

- Full range 85~264VAC input
- Withstand 300VAC surge input for 5 seconds
- High efficiency, long life & high reliability
- 100% full load burn-in test
- Extremely low no load power consumption
- Protection: Short, overload & overvoltage
- Power on LED indicator
- 5G anti-vibration capability
- Complies with international safety standards
- Operates from -30°C to 70°C under air convection without a fan
- Backed by 3 year warranty

3 YEAR WARRANTY

** MP3294: Overtemperature protection, built in DC fan, active PFC (Power Factor Correction)*

SPECIFICATIONS	MP3285	MP3286	MP3287	MP3288	MP3289	MP3290	MP3291	MP3292	MP3294*
Model No.	LRS-35-12	LRS-35-24	LRS-75-12	LRS-75-24	LRS-75-5	LRS-100-12	LRS-150F-12	LRS-150F-24	RSP-320-12
Output Voltage	12VDC	24VDC	12VDC	24VDC	5VDC	12VDC	12VDC	24VDC	12VDC
Tolerance	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 2.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
Ripple & Noise	120mV	150mV	120mV	150mV	100mV	120mV	150mV	200mV	150mV
Rated Current	3A	1.5A	6A	3.2A	14A	8.5A	12.5A	6.5A	26.7A
Efficiency	86%	88%	89%	90%	86.50%	88%	87.50%	89%	88%
Input Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	45A	45A	50A	50A	50A	50A	60A	60A	40A
Weight	230g	230g	300g	300g	300g	340g	480g	480g	900g
Dimensions L x W x H	98 x 82 x 30mm		99 x 97 x 30 mm			129 x 97 x 30mm	159 x 97 x 30mm		215 x 115 x 30mm

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
35W	12V	3A	MP3285	$36.90	$32.90	$28.90
35W	24V	1.5A	MP3286	$36.90	$32.90	$28.90
75W	12V	6A	MP3287	$54.90	$48.90	$43.90
75W	24V	3.2A	MP3288	$54.90	$48.90	$43.90
75W	5V	14A	MP3289	$54.90	$48.90	$43.90

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
100W	12V	8.5A	MP3290	$59.90	$53.90	$47.90
150W	12V	12.5A	MP3291	$89.90	$80.90	$71.90
150W	24V	6.5A	MP3292	$89.90	$80.90	$71.90
320W	12V	26.7A	MP3294	$209.00	$187.90	$166.90

ENCLOSED POWER SUPPLIES

A range of mini enclosed switchmode power supplies with single (RS) or dual (RD) outputs.

- Miniature size, non-PFC
- 5G vibration, High operating temperature up to 70°C
- 300VAC input surge
- Suitable for critical applications
- Dual outputs available with the RD series

3 YEAR WARRANTY

SINGLE OUTPUT POWER SUPPLIES - RS SERIES

SPECIFICATIONS	MP3295	MP3296	MP3297	MP3298
Model No.	RS-15-5	RS-15-12	RS-25-12	RS-25-24
Output Voltage	5VDC	12VDC	12VDC	24VDC
Tolerance	+/- 2.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
Ripple & Noise	80mV	120mV	120mV	120mV
Rated Current	3A	1.3A	2.1A	1.1A
Efficiency	77%	81%	81.50%	86%
Input Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	65A	65A	30A	30A
Weight	130g	130g	200g	200g
Dimensions L x W x H	62.5 x 51 x 28mm		78 x 51 x 28mm	

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
15W	5V	3A	MP3295	$22.90	$20.90	$17.90
15W	12V	1.3A	MP3296	$22.90	$20.90	$17.90
25W	12V	2.1A	MP3297	$28.90	$25.90	$22.90
25W	24V	1.1A	MP3298	$28.90	$25.90	$22.90

DUAL OUTPUT POWER SUPPLIES - RD SERIES

SPECIFICATIONS	MP3299	MP3300
Model No.	RD-65A	RD-125B
Output Voltage CH1	5VDC	5VDC
Output Current CH1	6.0A	4.6A
Voltage Tolerance CH1	+/- 2.0%	+/- 5.0%
Ripple & Noise CH1	80mV	80mV
Output Voltage CH2	12VDC	24VDC
Output Current CH2	3.0A	4.6A
Voltage Tolerance CH2	+/- 6.0%	+/- 7.0%
Ripple & Noise CH2	120mV	120mV
Efficiency	79%	85%
Input Frequency	47-63Hz	47-63Hz
Cold Start Inrush Current	40A	40A
Weight	440g	700g
Dimensions L x W x H	129 x 98 x 38mm	199 x 98 x 38mm

3 YEAR WARRANTY

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
65W	5V/12V	6A/3A	MP3299	$56.90	$50.90	$44.90
125W	5V/24V	4.6A/4.6A	MP3300	$79.90	$71.90	$63.90

MINI POWER SUPPLIES

The IRM Series is a miniature encapsulated AC/DC power supply. This on board module features compact size and extremely low (<0.1W) no load power consumption at standby mode. This allows designers to easily conform to the requirements of ErP norm (Energy-related Products) and EISA. The 94V-0 flame retardant plastic case and fully-potted silicone enhance the heat dissipation and meet anti-vibration demand up to 5G. The new series complies with UL/CUL/TUV/CB/CE certificates for safety. Suitable applications include electronic instruments, hand held electronics, factory automation and electrical or mechanical equipment. Our range comes with screw terminals.

3 YEAR WARRANTY

- Universal AC input / Full range
- Compact size
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- No load power consumption <0.1W
- Pass LPS
- 100% full load burn-on test
- High reliability

SPECIFICATIONS	MP3301	MP3302
Model No.	IRM-30-5ST	IRM-30-12ST
Output Voltage	5VDC	12VDC
Tolerance	+/- 2.5%	+/- 2.5%
Ripple & Noise	120mV	150mV
Output Current	6A	2.5A
Efficiency	83%	88%
Input Voltage	85 ~ 264VAC	85 ~ 264VAC
Input Frequency	47-440Hz	47-440Hz
Cold Start Inrush Current	45A	45A
Weight	120g	120g
Dimensions L x W x H	91 x 39.5 x 28.5mm	91 x 39.5 x 28.5mm

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
30W	5V	6A	MP3301	$45.90	$40.90	$35.90
30W	12V	2.5A	MP3302	$45.90	$40.90	$35.90

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DIN Rail Power Supplies

DIN RAIL POWER SUPPLIES

Mean Well HDR DIN Rail power supplies are available in 15W, 30W, or 60W and feature an ultra-slim, step shape plastic housing. The HDR family specially adopts the European Union standard DIN EN43880 and slim design with a height of 90mm and the width are only 1SU to 3SU (17.5mm/35mm/52.5mm). They also feature efficiencies up to 91%, adjustable (±10%) DC output voltage, and a working temperature range of -30°C to +70°C. Typical applications include building automation, household control system, industrial control system, factory automation and electro-mechanical apparatus.

Only 17.5mm wide

- Ultra slim design with 17.5mm(1SU) / 35mm(2SU) / 52.5mm(3SU) width
- Universal input 85~264VAC
- No load power consumption < 0.3W
- Isolation class II
- Pass LPS (limited power source)
- DC output voltage adjustable
- Short circuit / overload / over voltage protections
- Cooling by free air convection (working temperature: -30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- LED indicator for power on

SPECIFICATIONS	MP3155	MP3156	MP3157	MP3158	MP3159
Model No.	HDR-15-12	HDR-30-12	HDR-30-24	HDR-60-12	HDR-60-24
Output Voltage	12VDC Adjustable	12VDC Adjustable	24VDC Adjustable	12VDC Adjustable	24VDC Adjustable
Ripple & Noise	120mV	120mV	150mV	120mV	150mV
Output Current	1.25A	2.0A	1.5A	4.5A	2.5A
Efficiency	85%	88%	89%	88%	90%
Input Voltage	85 ~ 264VAC, 120 ~ 370VDC				
Input Frequency	47 ~ 63Hz				
Cold Start Inrush Current	45A @ 230VAC			60A @ 230VAC	
DIN Rail Compatability	TS35/7.5 or 15 mountable				
Dimensions L x W x D	90 x 17.5 x 54.5mm	90 x 35 x 54.5mm		90 x 52.5 x 54.5mm	

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
15W	12V	1.25A	MP3155	$45.90	$40.90	$35.90
30W	12V	2A	MP3156	$56.90	$50.90	$44.90
30W	24V	1.5A	MP3157	$56.90	$50.90	$44.90
60W	12V	4.5A	MP3158	$79.90	$71.90	$63.90
60W	24V	2.5A	MP3159	$79.90	$71.90	$63.90

DIN RAIL POWER SUPPLIES

Mean Well EDR Din Rail Power Supplies are an economical and slim solution which adapt to be installed on TS-35/7.5 or 15 mounting rails. They are 40mm wide which allows plenty of space to be saved in cabinets. They are designed with metal housing that enhances the unit's power dissipation. It is equipped with constant current mode for over-load protection fitting various inductive or capacitive applications.

- Universal AC input / Full range
- Cooling by free air convection
- Installable on DIN rail TS-35/7.5 or 15
- 100% full load burn-in test
- Low cost

SPECIFICATIONS	MP3922	MP3923	MP3924
Model No.	EDR-120-12	EDR-120-24	EDR-120-48
Output Voltage	12VDC	24VDC	48VDC
Ripple & Noise	100mV	120mV	150mV
Output Current	10A	5A	2.5A
Efficiency	85%	88.5%	89%
Input Voltage	90 ~ 264VAC, 127 ~ 370VDC		
Input Frequency	47 ~ 63Hz		
Cold Start Inrush Current	35A @ 230VAC		
DIN Rail Compatability	TS35/7.5 or 15 mountable		
Dimensions L x W x D	125.2 x 40 x 113.5mm		

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
120W	12V	10A	MP3922	$129.00	$115.90	$102.90
120W	24V	5A	MP3923	$129.00	$115.90	$102.90
120W	48V	2.5A	MP3924	$129.00	$115.90	$102.90

DIN RAIL BRACKETS

DIN Rail brackets to suit switchmode DIN and enclosed frame power supplies. MP3150 suits 25 & 40W models MP3152 suits 60, 100, 120, 150W models MP3154 Clip is required for the brackets above, which is then attached onto the DIN rail.

Note: M3 and M4 screws are required.

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
1 DIN	MP3150	$7.90	$7.20	$6.50
2 DIN	MP3152	$8.90	$7.90	$6.90
Clip	MP3154	$7.90	$7.20	$6.50

Mean Well Desktop Power Supplies

DESKTOP POWER SUPPLIES

Mean Well GST series Power Adaptors are highly reliable desktop style single output green adapters complying with the latest energy efficiency regulation (EISA 2007/DoE Level VI). With a low no load power consumption (less than 0.075W) and an average operating efficiency up to 90% these are far superior to any other power supply in the market. They are made of 94V-0 flame retardant plastic case and are certified for various international safety regulations. This range is ideal for use with various types of consumer electronic devices, telecommunication devices, office facilities, industrial equipment, and various kinds of apparatus or systems requiring conformity to the latest energy related regulations.

- 90~264VAC input
- No load power consumption <0.075W
- 94V-0 flame retardant fully enclosed plastic case
- Complete protection functions:
- Short circuit/overload/over voltage/ over temperature (GST60A only)
- 3 pole AC inlet IEC320-C14
- Energy efficiency level VI
- Comply with up to date global energy efficiency regulations
- EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- Class I power (with earth pin)
- Pass LPS
- LED indicator for power on

SPECIFICATIONS	MP3252	MP3254	MP3256	MP3258
Model No.	GST60A12-P1J	GST60A24-P1J	GST60A48-P1J	GST120A12-R7B
Input Voltage	90 ~ 254VAC	90 ~ 264VAC	90 ~ 264VAC	90 ~ 264VAC
Output Voltage	12VDC	24VDC	48VDC	12VDC
Output Current	5A	2.5A	1.25A	8.5A
Tolerance	+/- 3.0%	+/- 3.0%	+/- 2.5%	+/- 5.0%
Ripple & Noise	150mV	180mV	240mV	120mV
Efficiency	89.50%	90.50%	92%	88.50%
Input Frequency	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Inrush Current (max)	65A	65A	65A	70A
Output plug type	2.1mm DC (P1J)			DIN 4 Pin with lock type (R7B)
Weight	305g	305g	305g	620g
Dimensions L x W x D	125 x 50 x 31.5mm			167 x 67 x 35mm

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 5+	Qty 10+
60W	12V	5A	MP3252	$56.90	$50.90	$44.90
60W	24V	2.5A	MP3254	$56.90	$50.90	$44.90
60W	48V	1.25A	MP3256	$56.90	$50.90	$44.90
120W	12V	8.5A	MP3258	$119.00	$107.00	$95.00

Dylan Holman likes to

think. possible.

"Augmented reality. I think it would be cool to have live information in front of your eyes. It could be used to show how to make or repair something. Showing how the parts need to be put together. It would also be nice to be able to watch videos while walking around."

For next day delivery, or Click and Collect, see page 5

pick me "Lab" Power Supplies

	VOLTAGE DC	CURRENT	DISPLAY	OUTPUT
MP3079	13.8V	12A		SINGLE
MP3078	13.8V	20A		SINGLE
MP3089	13.8V	40A		SINGLE
MP3096	13.8V	5A		SINGLE
MP3097	13.8V	10A		SINGLE
MP3098	13.8V	20A		SINGLE
MP3800	0-24V	17A	ANALOGUE METER (BACKLIT)	SINGLE
MP3802	0-16V	30A	ANALOGUE METER (BACKLIT)	SINGLE
MP3840	0-30V	5A	LED	SINGLE
MP3087	2 X 0-32V	3A	LCD (BACKLIT)	DUAL
MP3091	0-15V	40A	LCD (BACKLIT)	SINGLE
MP3842	0-16V 0-27V 0-36V	5A 3A 2.2A	LCD (BACKLIT)	SINGLE
MP3844	0.3-30V	3.75A	LCD (BACKLIT)	SINGLE

FIXED 13.8V SWITCHMODE

High current general workshop power supplies for equipment component testing, etc. Internal cooling fans assist cooling at higher temperatures.

- Banana socket style binding posts
- LED power on indication
- Rear mounted M205 fuse
- Ideal for 12V amateur transceivers, linear amps and high powered car stereo bench testing
- 12, 20 and 40A models

1 YEAR WARRANTY

POWERTECH

SPECIFICATIONS	ALL MODELS
Input Voltage Range	190 - 240V AC
Output Voltage Range	13.8V DC regulated
Output Connections	4mm Banana/Clamp Type
Recommended Fuse	m205 4 amp
Dimensions	MP3079: 170 x 160 x 85mm MP3078: 170 x 190 x 95mm MP3089: 190 x 260 x 105mm

Type	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
Fixed	12A	MP3079	$83.90	$75.50	$66.90
Fixed	20A	MP3078	$119.00	$107.90	$95.90
Fixed	40A	MP3089	$239.00	$214.90	$190.90

FIXED 13.8V

These good looking power supplies are available in three current capacities of 5, 10 and 20 amp. They use proven technology and are designed to give long service life in workshop situations. The range features short circuit protection on the output and a fused input.

1 YEAR WARRANTY

POWERTECH

SPECIFICATIONS	MP3096	MP3097	MP3098
Output Voltage	13.8VDC	13.8VDC	13.8VDC
Rated Output	5 Amps	10 Amps	20 Amps
Surge Current	7 Amps	12 Amps	22 Amps
Voltage Regulation	<5%	<5%	<5%
Ripple Voltage	100mV	120mV	150mV

Type		Cat.	Qty 1+	Qty 3+	Qty 6+
Fixed	5A	MP3096	$119.00	$106.90	$94.90
Fixed	10A	MP3097	$159.00	$142.90	$126.90
Fixed	20A	MP3098	$229.00	$199.00	$179.00

Laboratory Power Supplies CONTINUED

COMPACT SWITCHMODE VARIABLE

Compact size, high current, variable output and fan cooling make these the ideal power supply for your bench. They are protected against thermal overload and short circuit and will display a warning LED in the event of a fault condition. Current and voltage are displayed on separate backlit analogue meters. Two models available.

1 YEAR WARRANTY

SPECIFICATIONS	MP3800	MP3802
Output Voltage	0 - 24VDC	0 - 16VDC
Output Current	Max 17A,15A continuous	Max 30A, 25A continuous
Ripple	<9mVp-p at rated load	<9m Vp-p at rated load
Outage Regulation	<1%	<1%
Dimensions	148(W) x 162(D) x62(H)mm	148(W) x 162(D) x62(H)mm

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
Variable	MP3800	$189.00	$171.90	$152.90
Variable	MP3802	$239.00	$214.90	$190.90

0 TO 36VDC, 0 TO 5A SLIMLINE

Often in a workbench environment you don't need massive amounts of power, and your huge unit is underutilised. This slimline power supply provides up to 80W of power, still plenty of grunt for many tasks. It provides constant current and constant voltage options. Simply select your power range, then adjust the controls to obtain your desired outputs. Ranges available are 0-16V @ 0-5A, 0-27VDC @ 0-3A, and 0-36V @ 0- 2.2A. Output is provided via banana sockets which will accept insulated banana plugs. A powerful, compact unit for your workbench or mobile toolkit. Includes banana to alligator clamp leads.

- Constant current / constant voltage options
- Up to 5A current
- Compact design

1 YEAR WARRANTY

SPECIFICATIONS	MP3842
Input Voltage	100-240VAC @ 50/50Hz
Output Voltage/Current	0-16VDC 0-5A (Max), 0-27VDC @ 0-3A (Max), 0-35VDC @ 0-2.2A (Max
Output Power	80W Max.
Ripple And Noise	<30mVPP
Ripple Current	<10mA
Load Regulations	<20mV @ 100% load
Weight	886g
Dimensions	53(W) x 300(D) x 138(H)mm

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
Variable	MP3842	$169.00	$151.90	$134.90

0.3 TO 30VDC, 0 TO 3.75A PORTABLE

This is the ultimate power source for technicians and hobbyists without much space on their workbench. It has all the features of an exceptionally accurate power source, in a lightweight case barely as big as a multimeter. Digital controls and a large display provide accurate control. The supply can be operated in constant current or constant voltage modes, up to a maximum of 50W. It's short circuit protected with banana plug sockets for power output, and it conveniently provides two 2A USB charging outlets too.

- Adjustable from 0.3 volt to 30 volt at up to 3.75A with maximum continuous power 50W
- Work in constant voltage mode and current mode
- Large LCD Display
- Output short circuit protection
- Supplied with quality clamp leads

1 YEAR WARRANTY

SPECIFICATIONS	MP3844
Input Voltage	90 - 265VAC 50-60Hz @ 1A
Output Rating	Voltage range: 0.3 to 30V Current range: 0 to 3.75A Ripple and noise: <150mV p-p Load regulation: 0.1%
Measurement Accuracy	Voltage: 10mV Current: 1mA
Weight	370g
Dimensions	88(W) x 185(H) x 38(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP3844	$229.00	$199.00	$179.00

0 TO 30VDC, 0 TO 5A REGULATED POWER SUPPLY

A must have for laboratory or home workbenches. This robust DC power supply features digital control and a large easy to read LED display. Over-current and short circuit protection are built-in. Voltage is adjustable from 0-30V and current can be adjusted from 0-5A, all through the large front dials.

- Includes a tough carry handle making it ideal for technicians to haul around the lab
- Perfect for educational, industrial, or professional users

1 YEAR WARRANTY

SPECIFICATIONS	MP3840
Output Voltage	0-30VDC
Output Current	0-5A
Ripple And Noise	<1.0mVRMS
Ripple Current	3mA(ms)
Dimensions	120(W) x 185(H) x 270(L)mm

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
Variable	MP3840	$239.00	$214.90	$190.90

0 TO 32VDC, 0 TO 3A DUAL OUTPUT, DUAL TRACKING

This automatic constant-voltage/ constant-current transfer type power supply is effectively two 0-32VDC 3 Amp power supplies in one case. The two outputs can be operated independently, connected in parallel, or series for multiple output currents and voltages. Coarse and fine voltage controls are provided on both outputs, along with current limit control. Both outputs have independent digital voltage and current meters.

- Displays are backlit and extremely easy to read

1 YEAR WARRANTY

POWERTECH

SPECIFICATIONS	MP3087
Output Voltage	2 x 0 - 32VDC
Output Current	0 - 3 Amps (x 2)
Ripple And Noise	<1.0mVRMS
Load Regulation	10mV max.
Dimensions	185(H) x 260(W) x 400(D)mm
Weight	10kg approx

Type	Cat.	Qty 1+	Qty 3+	Qty 6+
Variable	MP3087	$489.00	$439.00	$389.00

0 TO 15VDC, 0 TO 40A REGULATED

A good lab power supply is a must-have for any serious hobby bench. This one provides the flexibility of wide voltage range and current limiting. A large backlit LCD provides feedback. Thoughtful design makes this unit very functional. While it's capable of up to 40A, if you're only using up to 5A, handy banana sockets are provided on the front panel. If you need up to 40A, heavy duty binding posts are provided at the rear of the unit. The lightweight switchmode design means you can move it around as required, while voltage ripple is kept below 100mV.

- 0-15V variable output voltage
- 0-40A variable current limiting
- Overload and over temperature protected

SPECIFICATIONS	MP3091
Input	220V-240V @ 50Hz
Variable Output Voltage	0-15V
Variable Output Current Limiting	0-40A
Ripple & Noise (Peak-Peak)	100mV
Protections	Overload & Over Temperature
Weight	2.9kg
Dimensions	336(W) x 87(H) x 214(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
0~15 VDC 0~40A	MP3091	$399.00	$359.00	$319.00

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Mains Extension Leads

EXTENSION LEADS - WHITE

These leads have the new "safe socket", which has a flange around it, so kids can't slide a knife in and hurt themselves.

- Off white colour

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	PS4122	$4.00		
3m	PS4125	$6.00	$5.40	
5m	PS4130	$8.00	$7.20	
10m	PS4134	$18.90	$16.90	$14.90

EXTENSION LEADS - BLACK

Perfect for stage, lighting, DJ or other applications where the inconspicuousness of a black extension lead is required.

- Rated to 10A max

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	PS4152	$4.00		
5m	PS4155	$8.00	$7.20	
10m	PS4157	$18.90	$16.90	$14.90

HEAVY DUTY 10A EXTENSION LEADS

If you know you're going to be demanding a lot of power, a heavy duty extension cable is the way to go. Especially important for a worksite with power-hungry tools. Heavy duty 1.5mm² copper cable (standard leads are generally 1.0mm²).

- Heavy duty conductors
- Ideal for power tools

1 YEAR WARRANTY

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS4198	$25.90	$22.90	$20.90
20m	PS4200	$45.90	$40.90	$35.90

PIGGY BACK 10A EXTENSION LEADS

These extension lead provides you with a piggyback socket so you don't "use up" an outlet where you're plugging it in. Genius!

- Rating: 240VAC @ 10A / 2400W

1 YEAR WARRANTY

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	PS4153	$7.90	$7.10	$6.30
3m	PS4154	$13.90	$12.90	$10.90

HEAVY DUTY DUAL OUTPUT 10A EXTENSION LEAD

This is a safe way to connect two power tools, or run two extension leads from one mains outlet. Featuring a fully moulded design, there's no plastic double-adaptor lying around when there doesn't need to be.

- Heavy duty cable
- Moulded Y-split design

SPECIFICATIONS	PS4196
Voltage	240VAC
Max. Total Load	10A/2400W
Weight	326g
Cable Length	600mm
Cable	3 Core 1.0mm²

1 YEAR WARRANTY

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
600mm	PS4196	$16.90	$14.90	$13.40

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1.8M EXTENSIONS LEADS WITH INLINE SWITCHES

Standard 10 amp rated extension lead with a convenient in-line switch suitable for controlling power to most appliances. Ideal for controlling lamps, televisions, computers, and more without having to reach the power outlet. Also useful for switching individual items connected to an unswitched powerboard. Available in black or white, it has a total 1.8 metre lead length with the switch module positioned half way along the cable.

Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
White	PS4121	$15.90	$14.30	$12.70
Black	PS4151	$15.90	$14.30	$12.70

4 WAY ROUND CABLE REEL WITH 15M 10A EXTENSION CORD

1 YEAR WARRANTY

Combining a powerboard and an extension lead, this powerboard hub saves you from tangled cables and frustration. To use, simply unreel the cable and connect your mains appliances. Once you're finished, disconnect your appliances and use the integrated reel to easily wind the 15m extension lead away. No tangles, no fuss, and it's already set for next time! Also features a master power switch, as well as overload protection.

SPECIFICATIONS	MS4039
Max Power Rating	240VAC @ 10A / 2400W
Weight	1.8kg
Dimensions	193(W) x 253(H) x 160(D)mm

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
15m	MS4039	$45.90	$40.90	$35.90

CABLE TIDY FOR EXTENSION POWER LEADS UP TO 25M

No more tangled extension leads! This handy cable tidy will hold a lead up to around 25m long (even a heavy duty one). Simply coil it around and clip the plug and socket into the integrated clips. Then when it's time to use it, unwinding will be an absolute breeze! It even features a carry handle!

Note: Extension lead must be fully uncoiled from the cable tidy before use.

- No more tangles
- Integrated plug & socket clips
- Carry handle

Note: Cable not included.

1 YEAR WARRANTY

SPECIFICATIONS	PS4194
Weight	142g
Dimensions	472(W) x 128(H) x 18(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS4194	$5.60	$5.00	$4.45

Robert Willis likes to

think. possible.

"Electric Motorcycles are getting faster, have longer battery life, can charge faster and in more locations every year. Combine with solar or wind power for free fuel for life."

Mains Hardware - 15A

PORTABLE RCD WITH 15A TO 10A MAINS PLUG CONVERSION

1 YEAR WARRANTY

Convert your 15A power lead to fit a 10A power outlet whilst adding the additional safety of RCD earth leakage protection. Ideal if you only have a device with a 15A mains plug, and you are located somewhere that does not have a 15A power outlet available.
Features a 10A circuit breaker/RCD in case you accidentally overload the device.
Not suitable for outdoor use.

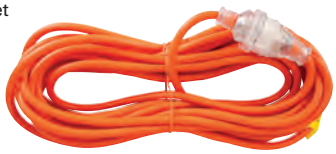
SPECIFICATIONS	MS4044
Voltage	240VAC, 50Hz
Max load	2400W 10A
Rated residual current	30mA
RCD type	AC & DC pulse sensitivity
Dimensions	180(H) x 135(D) x 124(W)mm
Electrical Safety Approval Certificate No.	SAA122512EA

	Cat.	Qty 1+	Qty 4+	Qty 10+
15A to 10A Mains Adaptor	MS4044	$94.90	$84.90	$75.90

HEAVY DUTY 15A EXTENSION LEADS

Proper heavy duty mains extensions leads with 15A plugs and sockets, and a thick orange flexible cord. The 15A socket end also features an internal LED to indicate that power is present.

- Perfect for caravans and motorhomes



	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS4182	$28.90	$25.90	$22.90
20m	PS4186	$45.90	$40.90	$35.90

PORTABLE RCD WITH 4 X 15A SOCKETS TO 15A MAINS PLUG

Unlike conventional 10A units, you can draw a maximum 3600W from this one. It's made in a power block configuration, which includes a carry handle, and a pedestal base to keep all the plugs off the ground. It features a high power 15A Australian approved plug, and 30mA max RCBO protection. The 4 x outlets are 15A sockets, not 10A sockets.

- IP33 Dust/water ingress protection
- 30mA RCBO
- 15A Plug - 3600W rated

SPECIFICATIONS	MS4047
Input	1 x 15A Mains Plug
Output	4 x 15A Mains Sockets (3600W total combined output)
Weight	1kg
Dimensions	180(H) x 170(W) x 140(D)mm
Cable Length	1.8m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
4x15A	MS4047	$119.00	$106.90	$94.90

Outdoor Hardware

MAINS PLUG AND SOCKET PROTECTOR - IP44

1 YEAR WARRANTY

There are often instances where you have no choice but to connect mains appliances out in poor weather. Sure, your appliance might be weatherproof, but you need to protect the mains plug and socket from the weather too. This brilliant enclosure safely encapsulates a mains plug and socket connection (say from an extension lead to a mains powered appliance), to ensure no water gets into the connection. It not only stops a short circuit that will trigger your circuit breaker, it prevents accidental electrocution from water ingress. Of course, in good weather it still prevents accidental disconnection and damage to the mains plug and socket.

- Protects mains plug and socket
- IP44 waterproof rating
- Heavy duty

SPECIFICATIONS	HB6172
Suitable Cable	6.5mm - 9.0mm Diameter
Dimensions	251(W) x 76(H) x 85(D)mm, 165g

	Cat.	Qty 1+	Qty 4+	Qty 10+
IP44	HB6172	$10.90	$9.90	$8.90

WEATHERPROOF OUTDOOR POWERBOARD ENCLOSURE - IP54

1 YEAR WARRANTY

This fantastic enclosure takes your average mains powerboard and turns it into a safe, IP54 rated weatherproof power distribution system! It features a heavy duty lockable latch to keep things closed, with an o-ring seal to keep the water out. The cavity inside is around 295(W) x 180(L) x 100(D)mm, which is enough for most 4-way powerboards, and will house plugpacks for Christmas lights and garden ornaments with ease. A 5-way cable grommet is built-in (1 for powerboard, 4 for the items connected to the powerboard). Comes with optional drill holes for M20 or M25 cable glands.

- Wall mountable & lockable

SPECIFICATIONS	HB6173
Weatherproof Rating	IP54
Suitable Cable	6.9mm - 10.5mm diameter
Dimensions	330(W) x 125(H) x 210(D)mm, 915g

	Cat.	Qty 1+	Qty 4+	Qty 10+
IP54	HB6173	$33.90	$29.90	$26.90

2 OUTLET 10A POWER GARDEN STAKE - IP44

Get the right powerboard for the job! This is a versatile and safe way to distribute power in your garden. It features two mains outlets, which have integrated spring-loaded covers. A hood further protects from water. A long spike makes it easy to push into the ground, while a handle on the top allows easy removal.

- IP44 water resistant
- Spring loaded socket covers
- Carry handle

SPECIFICATIONS	MS4097
Max Rating	240VAC @ 10A / 2400W
Cable Length	1.8m
Water Resistant Rating	IP44
Weight	423g
Dimensions	147(W) x 395(H) x 70(D)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 4+	Qty 10+
IP44	2 Way	MS4097	$22.90	$20.90	$17.90

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

Konrad Lojek likes to

think. possible.

"With the security of the internet and exorbitant cost of terrestrial radio linking stations I think that Radio over IP (RoIP) will be utilized more by essential services to give economical and reliable radio communications coverage. Existing land based radio linking systems could be used for system backup."

For next day delivery, or Click and Collect, see page 5

Powerboards

4 & 6 WAY POWERBOARDS

These powerboards will allow 4 or 6 appliances to be plugged in at once to a single power point.

- Maximum load is 2400 watts
- Includes a safety overload with reset switch
- White in colour
- Cord length 0.9 metres
- Power LED indicator

1 YEAR WARRANTY

4 OR 6 WAY AVAILABLE

SAA approved.

POWERTECH

		Cat.	Qty 1+
4 Way	0.9m	MS4040	$6.00
6 Way	0.9m	MS4045	$7.00

POWERBOARDS - SURGE & OVERLOAD PROTECTION

These powerboards offer a choice of 4 or 6 outlets, all surge protected. Guard your expensive Hi-Fi, TV, or VCR etc. against damage.

- Surge and spike protected mains outlets
- 10 Amp resettable overload circuit breaker
- Cable length: 0.9 metres
- Colour: White

POWERTECH

SPECIFICATIONS	BOTH MODELS
Surge Protection	Metal Oxide Varistors
Supply Voltage	230-240VAC
Current Rating	10A max
Energy Absorption	230 Joules

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	0.9m	MS4051	$14.90	$13.40	$11.90
6 Way	0.9m	MS4055	$17.90	$15.90	$14.90

4 WAY POWERBOARD - FILTER / SURGE & OVERLOAD PROTECTION

This powerboard offers 4 outlets, all filtered and surge protected. Guard your expensive Hi-Fi, TV, or VCR etc. against damage.

- 4 Surge and spike protected mains outlets
- 10 amp resettable overload circuit breaker
- Power on indicator in switch
- Cable length: 1 metre

POWERTECH *SAA approved*

SPECIFICATIONS	MS4057
Surge Protection	Metal Oxide Varistor
Supply Voltage	230-240VAC
Current Rating	10A max
Protection Mode	Active - Neutral
Max Surge Current	6000A
Typical Capacitance	430pF
Clamping Voltage	<775 @ 50A
Energy Absorption	175 joules
Approvals Number	N17298

1 YEAR WARRANTY

			Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	Black	1m	MS4057	$22.90	$20.90	$17.90

4 WAY POWERBOARD WITH 3 METRE LEAD

Compact with a 3m lead, and master switch for safe connections.

- Surge and overload protection
- Master switch

SAA approved

SPECIFICATIONS	MS4053
Surge Protection	175 Joules
Supply Voltage	240VAC/ 50Hz
Current Rating	10Amps
Power	2400W (Max)
Lead Length	3m
Cable	1.0mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	3m	MS4053	$22.90	$20.90	$17.90

POWERBOARDS WITH SURGE OVERLOAD PROTECTION

Individual switches provide safety for connecting and disconnecting your appliances, while overload and surge protection ensure they're running safely. Surge protection is a must for expensive or sensitive equipment such as TVs, computers, Hi-Fi equipment and more. 45mm spaced sockets to suit leads and slimline plugpacks.

SAA approved

MS4063

INDIVIDUALLY SWITCHED

MS4061

1 YEAR WARRANTY

SPECIFICATIONS	BOTH MODELS
Surge Protection	Metal Oxide Varistor
Supply Voltage	240VAC / 50Hz
Maximum Current	10A
Surge Current	4500A
Power Rating	2400 Watts Max
Typical Capacitance	430pF
Clamping Voltage	175J
Response Time	< 20ns
Dimensions (excluding switches)	235(W) x 85(H)x 30(D)mm (MS4061) 330(W) x 75(H) x 30(D)mm (MS4063)

		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	1m	MS4061	$36.90	$33.20	$29.50
6 Way	1m	MS4063	$42.90	$38.60	$34.30

p.351 - weatherproof boxes to suit

4 WAY MAINS POWERBOARD WITH 2 X USB AND SURGE PROTECTION

This 4 way powerboard includes 2 rapid charge USB sockets suitable for carging most smart devices and has filters for protection of mains products. Ideal for protecting your computer from spikes and surges.

- 4 surge and spike protected mains outlets
- 2 rapid charge USB sockets 3.1A total
- 10 amp resettable overload circuit breaker
- Cable length: 1 metre

1 YEAR WARRANTY

SAA approved

SPECIFICATIONS	MS4100
Surge Protection	Metal Oxide Varistor
Supply Voltage	240VAC / 50Hz

		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	1m	MS4100	$42.90	$38.60	$34.30

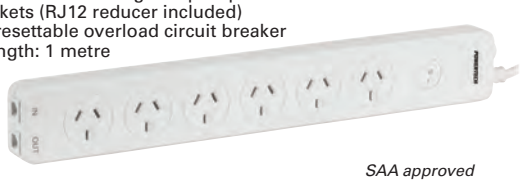
Powerboards CONTINUED

6 WAY MAINS POWERBOARD WITH 2 X TELEPHONE SURGE PROTECTION

1 YEAR WARRANTY

This 6 way powerboard has filters for protection of mains and telephone products: phones, modems, answering machines, cordless telephones, faxes. Ideal for protecting your computer and phone line from spikes and surges.

- 6 surge and spike protected mains outlets
- Telephone / data line surge & spike protection RJ45 sockets (RJ12 reducer included)
- 10 amp resettable overload circuit breaker
- Cable length: 1 metre



SAA approved

SPECIFICATIONS	MS4102		
Surge Protection	Metal oxide varistors	Max Surge Current	6,000A
Supply Voltage	240VAC/ 50Hz		
Current Rating	10A max	Energy Absorption	175 joules
Protection Mode	PN	Response Time	< 20 nanoseconds

		Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	1m	MS4102	$36.90	$33.20	$29.50

p.351 - outdoor powerboards

10 WAY HOME THEATRE SURGE PROTECTED POWERBOARD

1 YEAR WARRANTY

This is the perfect addition to your home theatre, music gear or home office setup. This powerboard features 10 surge and spike protected sockets, including 2 wide sockets for large power adaptors. It also includes 2 USB ports for charging Smartphones and Tablets. Surge protection and EMI/RFI filtering protect against mains power fluctuations, with each socket protected three ways: active, neutral and earth. Additional protection is provided by the built-in circuit breaker. This powerboard also has data protection (for a network connection), satellite/cable TV video protection, and protection for your TV antenna.

- Separate Data Line & TV Antenna/Cable TV protection
- 144,000A surge protection
- 2 USB charging sockets & 2 extra wide sockets
- Dimensions: 360(L) x 125(W) x 32(H)mm

SAA approved

POWER FILTER	MS4033	DATA LINE	MS-4033
Surge Protection	Metal Oxide Varistors	Filter Type	Gas Tube Arrestor
		Surge Current	1200A (1kV/µs)
Supply Voltage	250VAC	Impulse Discharge Current	10kA (8/20µs)
Current Rating	10A max. 2599W		
Protection Mode	A-Nm N-E, E-A		
Max Surge Current	144,000A	Capacitance	<5pF
		Clamping Voltage	600V
Typical Capacitance	400pF	TV Surge Protection	Gas Tube Arrestor
Clamping Voltage (@50A)	<775V	DC Strike Voltage	230V to max. 600V
		Surge Current	4500A
Energy Absorption	4300 joules	Energy Dissipation	225 joules
Response Time	<2ns	Response Time	<10ns
Filtration	EMI/RFI		

		Cat.	Qty 1+	Qty 4+	Qty 10+
10 Way	1.8m	MS4033	$94.90	$84.90	$75.90

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Mains Double Adaptors

MAINS DOUBLE ADAPTORS

- 240V Double Adaptors
- Standard, right & left types

Right Hand *Left Hand* *Standard*

	Cat.	Qty 1+
Standard	PP4032	$2.50
Right Hand	PP4035	$2.50
Left Hand	PP4036	$2.50

MAINS SURGE PROTECTOR DOUBLE OUTLET

Features three-way protection across active-neutral, active-earth and neutral-earth and is fully approved for electrical safety. Providing adequate protection against most surges in mains voltages.

SPECIFICATIONS	MS4015
Load Rating	240VAC 50Hz 10A
Energy Absorption	228J
Surge Current	5000A

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Double Power Point	MS4015	$11.90	$10.70	$9.50

Mains with USB Outlets

2 USB OUTLET 3.1A CHARGER WITH MAINS POWER OUTLET

1 YEAR WARRANTY

Provides up to 3.1A charging shared between two USB outlets, with a pass though mains socket allowing you to connect an additional main powered device!

SPECIFICATIONS	MS4007
Rating	230-240VAC, 50Hz
Current	10A Max, 2400W
USB Outlet	5VDC 3.1A
Dimensions	44(W) x 93(H) x 55(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Single + 2 USB	MS4007	$20.90	$18.90	$16.90

DUAL MAINS SOCKET POWER HUB WITH 2 USB OUTLETS (2.5A) AND SMART PHONE DOCK

This fantastically versatile unit provides you with dual mains outlets, as well as two high-power (2.5A) USB charging outlets. It even includes a handy cradle to prop up your smartphone or tablet. The cradle does not provide a charging connection, so it's infinitely universal, just use your favourite charging cables. It's all fitted to a 1.5m mains lead, so it's perfect for desk and counter-top use. Convenient, with a smart white finish.

SPECIFICATIONS	MS4103
Input	240VAC, 50Hz / 2400W (Max.)
Output	2 x 240 VAC, 50Hz 2 x 5 VDC, 2.5A (Max.)
Dimensions	103(H) x 100(W) x 44(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS4103	$22.90	$20.90	$17.90

tech talk Warning!

We strongly recommended that you exercise extreme caution if buying 240V mains accessories from so-called "$2 shops". There have been stories in the News in the past where people have been electrocuted from products purchased at these establishments. These tend to be low quality products imported from overseas (usually China) and are not subjected to a rigorous inspection/approval process before being offered for sale. The 240V products offered from us are all electrically tested and approved where appropriate. Why risk the lives of yourself and loved ones by using potentially dangerous goods which are not that much cheaper than products from reputable suppliers?

Mains USB Outlets CONTINUED

DUAL OUTLET POWERBOARD WITH 4 USB CHARGE PORTS

NEW

Small enough to take on your next trip or to keep on your desk without taking up too much room. Features 2 mains power outlets and 4 x USB ports (3.4A) to charge up to 4 USB devices at the same time.

- 2 mains power sockets
- 4 USB sockets
- 3.4A USB charge (shared)

SPECIFICATIONS	MS4104
Power Rating	2400 Watt (Max.)
USB Outlets	5VDC, 3.4A (Shared*)
Weight	245g
Dimensions	45(W) x 27(H) x 165(D)mm (Excluding Cable)
Cable Length	0.9m

	Cat.	Qty 1+	Qty 4+	Qty 10+
Double + 4 USB	MS4104	$22.90	$20.90	$17.90

2 OUTLET WORKSTATION CENTRE WITH USB 1A SOCKET

1 YEAR WARRANTY

This innovative power adaptor fits into a standard 60mm desk grommet allowing the power cord to be discreetly run through the hole without cluttering your desk. It features 2 surge protected mains power sockets and 1 USB port for power. Installation takes just seconds with no tools required.

- Max Current: 10A
- Surge Protected to 175 joules
- USB Socket: 5V at 1A
- Power Cord Length: 900mm
- SAA Approved

	Cat.	Qty 1+
Double + 1 USB	MS4082	$14.90

Mains Power Metersv

AC POWER METER WITH LCD

NEW

Simultaneously displays AC voltage, current, power, and energy on a large back-lit LCD screen. Capable of measuring between 80 to 260VAC up to 20A, making it ideal for monitoring energy usage for large appliances such as a refrigerator, dehumidifier, washing machine, air conditioner, etc. Also suitable for solar setups. Over-voltage and power alarms can also be set.

- AC Voltage, Current, Power, and Energy
- Measure between 80-260VAC up to 20A

SPECIFICATIONS	QP2325
Power Test Range	0-4.5kW
Energy Test Range	0-9999kWh
Voltage Test Range	80-260V
Current Test Range	0-20A
Operating Frequency	45-65Hz
Weight	60g
Display Dimensions	51(W) x 30(H)mm
Cutout Dimensions	84.6(W) x 44.6(H)mm
Overall Dimensions	90(W) x 50(H) x 24(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
80 - 260VAC	QP2325	$33.90	$29.90	$26.90

automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

Mains Power Meters CONTINUED

MAINS POWER METER

This intelligent power meter simply plugs into a normal power point (GPO) and turns it into a real-time power monitoring outlet.
You can enter the local price of your electricity and the meter will tell you exactly how much the appliance is costing to run. In addition, the power meter tracks the power used and can display the instantaneous voltage or current being drawn as well as the peak levels that have been drawn. The meter has backup batteries so it will not lose the stored dataduring a blackout or moving from point to point.

- Simple to install and a valuable tool for monitoring your power consumption

	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS6115	$22.90	$20.90	$17.90

MAINS POWER METER WITH EXTENDABLE LCD DISPLAY

A fantastic large LCD and clear power usage numbers make this unit easy to read, but what's even more impressive is the genius design of having the LCD separated from the mains point! An all-in-one meter might seem like a great idea, but if you're measuring the usage of your fridge, or your HiFi system, or something else where the mains point isn't in clear view, it can be very difficult to take readings. Solved!
It has all the usual features, power usage in watts, cost conversion, and more.

- Separate wired LCD for better readings
- Displays watts, cost, volts, amps, and CO2 emission
- Display hang-holes for mounting

SPECIFICATIONS	MS6108
Voltage	240V @ 50Hz
Current	10A Max.
DISPLAY RANGE	
Volts	200-276VAC
Amps	0.005A-10A
Watts	0.1-2400W
Line Frequency	45-65Hz
Clock Display	±1 Minute per Month
Power Parameter Accuracy	±1.5%
Battery	Ni-Mh Rechargeable 3.6V
CO2	Emissions calculated in kg
Cable Length	1.5m
DIMENSIONS	
Screen	80(H) x 70(W) x 21(D)mm
Power Plug	117(H) x 60(W) x 48(D) (Excluding mains plugs)
Weight	262g

	Cat.	Qty 1+	Qty 4+	Qty 10+
Mains Power Meter	MS6108	$33.90	$29.90	$26.90

Jeffrey Stokes likes to

think. possible.

"The IoT, AI and affordable systems and development boards like Arduino will come together in integrated Education and Training packages. Imagine an online electrical engineering, health or cooking course allowing video and actual measured data from your at-home prac work to be uploaded for immediate feedback and assessment by expert systems."

Mains Timers

24 HOUR MECHANICAL TIMER A-N SWITCH

1 YEAR WARRANTY

Simple and effective for automatically switching your appliances on and off at particular times. Setup takes mere seconds, then set and forget. Works in 15 min increments. It also includes an override switch so you can instantly engage power when required.

- Simple setup
- Override switch

SPECIFICATIONS	MS6113
Resolution	15 min increments
Time Duration	24 hours
Max Load	10A @ 240V (2400W)
Dimensions	125(H) x 70(W) x 52(D)mm\
Weight	135g

		Cat.	Qty 1+	Qty 4+	Qty 10+
10A	240VAC	MS6113	$11.90	$10.70	$9.50

HEAVY DUTY OUTDOOR TIMER IP44

These units are simple, but highly reliable when to-the-second accuracy isn't required. With 15-minute resolution, you can adjust the on-off mode through the entire 24hr cycle. Perfect for pool filters, garden lights, and more. Override switch is also included, powered straight from the mains point being controlled. Suitable for outdoor use, but should be protected from extreme weather.

- Mechanical
- IP44 rated
- Spring-loaded cover
- Time can be switched on/off

SPECIFICATIONS	MS6109
Power Rating	240VAC @ 10A / 2400W Max
IP Rating	IP44
Weight	165g
Dimensions	79(W) x 91(H) x 75(D)mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
10A	240VAC	MS6109	$22.90	$20.90	$17.90

MAINS TIMER WITH LCD DISPLAY

1 YEAR WARRANTY

More advanced than a mechanical timer. You can set it for time of day and also day of the week. The integrated LCD shows current status and guides you through setup. There's also an override on/off/auto selection. If the power goes out, an internal backup battery will retain your settings and accurate time for several days (though obviously won't provide power to your appliance while power is not available). Also includes random mode to switch on lamps or radios to give the impression you're home, while away on holidays.

- Detailed LCD for information
- Override selections
- Random mode
- Time of day and day of week selections

SPECIFICATIONS	MS6114
Resolution	1min increments
Accuracy	1min / month
Time Duration	24 hours / 7 days
Operation	Manual / Automatic / Random
Max Load	10A @ 240V (2400W)
Dimensions	125(H) x 58(W) x 52(D)mm (excluding mains pins), 135g

		Cat.	Qty 1+	Qty 4+	Qty 10+
10A	240VAC	MS6114	$24.90	$22.40	$19.90

DIGITAL MAINS TIMER SWITCH MODULES

Ideal for automating your heating & lighting or practically any other switching application that requires multiple unattended switching cycles. The timer has eight on/off settings that can be programmed to function on any day, or combinations of days across the week. Each of the on/off settings can be set independently. Each On/Off setting can be associated with a range of days from a single day to every day, thus giving 56 possible on/off cycles per week.

- 12VDC supply voltage
- Switching capacity: 16A @ 240VAC

		Cat.	Qty 1+	Qty 4+	Qty 10+
16A	12VDC	AA0361	$74.90	$67.40	$59.90

Smart Power Switches

SMART PLUG WI-FI CONTROLLED MAINS SWITCH

NEW

1 YEAR WARRANTY

Control mains appliances in your home or small office using an App or by voice using your Google Home or Amazon Alexa. For example, with a simple touch on your Smartphone or voice command you could turn off a light in your bedroom without getting out of bed. You can also setup multiple schedules to turn appliances on automatically at different times, ideal for turning on lights to deter thieves, or for turning on your coffee machine in the morning. A smart timer or delay is also useful to turn devices on or off.

- Wi-Fi Connection
- APP Available for Android & IOS
- Compatible with Amazon Alexa and Google Home
- Smart Timer Setting
- 1.3W Power Consumption (0.75W Standby)

Wi-Fi

ANDROID APP ON Google play | Available on the App Store

amazon alexa | works with the Google Assistant

SPECIFICATIONS	MS6106
Input Voltage	90 ~ 250VAC, 50/60Hz
Power Rating	2400W, 10A
App Frequency	2.4GHz
Power Consumption	<1.3W (in use), <0.75W (Standby)

	Cat.	Qty 1+	Qty 4+	Qty 10+
240V 10A	MS6106	$33.90	$29.90	$26.90

TPLINK SMART WI-FI PLUG

The Smart Plugs are easy to set up, and make it even easier to manage your household electronic devices anywhere in the world with a tap of your smartphone.

With a tap on your smartphone, you can easily turn off the lights and other devices in the living room without getting out of bed, or conveniently schedule all lights to go off by midnight.

You can pair the Smart Plugs with Google® Home or Amazon Echo for voice control. And the free Kasa app lets you run them from any Android® (4.1 and higher) or iOS (iOS 8 and higher) smartphone.

- Remote Access – Control devices connected to the Smart Plug wherever you have Internet using the free Kasa app on your smartphone
- Scheduling – Schedule the Smart Plug to automatically power electronics on and off as needed, like setting lights to come on at dusk or turn off at sunrise
- Away Mode – Turns your devices on and off at different times to give the appearance that someone is home

tp-link | Wi-Fi

ANDROID APP ON Google play | Available on the App Store

amazon alexa | works with the Google Assistant

	Cat.	Qty 1+
	YN8446	$69.90

REMOTE CONTROLLED MAINS OUTLET CONTROLLER

The ultimate in convenience - turn any standard mains outlet on and off via remote! Great for switching off hard-to-reach power points too.
The remote has a range of up to 30m.

- Wireless On/Off functionality
- 2 x AAA 1.5V
- Dimensions:
  Adaptor - 95(L) x 52(W) x 60(D)mm
  Remote - 115(L) x 40(W) x 20(H)mm

MS6148

1 YEAR WARRANTY

SPECIFICATIONS	BOTH MODELS
Power Supply	240VAC, 50Hz
Total Loading	10A, 2400W M.40
Radio Frequency	433.92MHz
Range	Typically about 30m in open area.

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Outlet + Remote	MS6148	$24.90	$22.40	$19.90
3 Outlets + Remote	MS6147	$48.90	$44.00	$39.10
Spare Outlet	MS6149	$10.90	$9.90	$8.90

For next day delivery, or Click and Collect, see page 5

Night Lights

AUTOMATIC LED NIGHT LIGHT WITH SENSOR

NEW

Automatically switches on and off based on ambient light. Mains powered, plug and play. Low light 2 lumen output is just enough to provide comfort, but not prevent sleep, with adjustable light direction. SAA approved.

- Soft glow ideal for bedrooms
- Automatic activation based on ambient light
- Adjustable light direction

	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC	SL3530	$9.90	$8.90	$7.90

DUAL USB WALL CHARGER WITH LED NIGHT LIGHT

This is a compact light weight multi-functional dual USB wall charger with LED night light, with both features functioning independent of each other. The night light has 3 different light modes which can be selected with the soft push switch. Perfect for hallways, bathroom, kids room or anywhere one needs comfort lighting. With a built in intelligent module the USB ports will deliver fastest possible charging speeds to smart phones, tablets and other USB devices.

- Light weight and compact, occupies single wall socket
- 3 light modes for night light function
- Fast charging dual USB outlets

SPECIFICATIONS	MP3429
Input	100-240VAC, 50Hz
Output	5VDC 3A (Shared), Dual USB
Dimensions	55(Dia.) x 49(L)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
240VAC	MP3429	$22.90	$20.90	$17.90

p.419 - small cupboard/wardrobe night lights

MAINS NIGHT LIGHT WITH TORCH

1 YEAR WARRANTY

A beautifully designed night light that plugs into a powerpoint and will automatically illuminate a dark hallway, stairway or any room when motion is detected. It has a built-in low light sensor so that it is only activated at night or during low light conditions. The torch sits in an induction charge base and can be easily removed for use during power outages.

SPECIFICATIONS	ST3146
Power	110-240VAC
Built-In Battery	2 x 2450 3.7V 120mAh Li-ion
15 x LED Night Light / 5 x LED Torch	
Charging Time	8 hours
Burn Time	15 LED: >1h / 5 LED: >5h
Sensor Distance/Angle	2.3 / 60°
Dimensions	170(H) x 75(D) x 54(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC	ST3146	$31.90	$28.70	$25.50

AUTOMATIC VERTICAL DUSK TO DAWN LED NIGHT LIGHT

NEW

Unlike children's night lights which provide a level of comfort, this one is bright enough to illuminate a stairwell or hallway well. 1W LED, with fully automatic dusk / dawn operation based on ambient light. Well diffused light for great coverage.

- Automatic LED Night Light
- Automatically turns on at dusk and turns off at dawn
- White light is dispersed making it ideal for stairways and hallways

SPECIFICATIONS	SL3531
Rating	240V 50Hz, 1W
Lumens	8
LEDs	5
Weight	60g
Dimensions	43(W) x 117(H) x 68(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC	SL3531	$10.90	$9.90	$8.90

RCD Power

SINGLE RCD (SAFETY SWITCH) OUTLET

1 YEAR WARRANTY

RCDs (residual current devices), also commonly called safety switches, are designed to cut the power in a fraction of a second in the event of a fault condition, thereby preventing electrocution. The electrics in your house may be too old to have RCDs installed, or you might want to use a power tool outdoors on an outlet that doesn't have an RCD fitted - use this handy portable one instead. Buy one right now if you don't have RCDs already. Note: RCDs are not a substitute for common sense around mains electricity. While they will work in most situations, they may not in some cases and are not a substitute for current overload devices such as fuses and circuit breakers. Wiring, appliances, leads and power outlets must always be maintained in a safe condition. Test function / reset button

	Cat.	Qty 1+	Qty 4+	Qty 10+
10A 240VAC	MS4013	$28.90	$25.90	$22.90

10A DOUBLE GPO POWER POINT WITH IN-BUILT RCD

NEW

Designed to be a direct replacement for your standard GPO fittings, combining two standard 240AC 10A mains (GPO) outlets with a built-in RCD to provide protection against electrical shock. In the event of a fault with the connected appliance or accident, such as cutting through the mains lead, the unit will provide complete isolation from mains. A test button, status indicator, and reset button allows you to check the RCD, which we recommend should be done each time before use. Meets Australian and New Zealand safety standards.

Please Note: This item should be installed by a licenced electrician.

- Electric shock protection
- LED status indicator
- Reset and test buttons
- Line power indicator

SPECIFICATIONS	PS4048
CD Classified	Type II
Rated Tripping Current	30mA
Operating Speed	<40mS Max.
L/Nin-L/Nout	2KV
Endurance	2000 Cycles Minute
Contact Break	Double Pole
Standards	RCD Module-AS NZS 3190, Socket-AS NZS 3112
Minimum Back Box Depth	35mm
Fixing Screws	M3.0 x 25mm
Cable Capacity	4x2.5mm², 2x4mm 2,1X6mm²

	Cat.	Qty 1+	Qty 10+	Qty 50+
10A 240VAC	PS4048	$56.90	$50.90	$44.90

Circuit Testers & Monitors

IP66 INLINE RCD CIRCUIT BREAKER 1.8M

NEW

Protect yourself at home or the worksite with this handy inline RCD circuit breaker with 1.8m lead. The built-in Residual Current Device (RCD) provides the best method to protect against electrocution and equipment damage. Faster acting and improved safety compared with standard over-current circuit breakers. It has an IP66 rain and dustproof rating, and includes test and reset buttons. Meets Australian and New Zealand safety approvals.

- Automatically shuts off power when a fault occurs
- IP66 rain and dustproof rating
- Durable

SPECIFICATIONS	QP2006
Residual Non-Operating Current	15mA
Residual Operating Current	30mA
Max. Tripping	≤0.1S
IP Rating	IP66
Length	1.8m

	Cat.	Qty 1+	Qty 4+	Qty 10+
10A 240VAC	QP2006	$45.90	$40.90	$35.90

Circuit Testers & Monitors CONTINUED

POWER POINT & EARTH LEAKAGE TESTER

A professional socket tester with modern, ergonomic and durable design, to test the safety of installed mains socket. Also checks 30mA RCDs, a unique soft-touch button tests that an RCD in the circuit trips within 300ms when a nominal 30mA earth fault current is applied; a further button, the earth volts touchpad, detects raised earth voltages above 50VAC, thus indicating potentially dangerous installations. Three vivid bicolour LEDs and a buzzer provide a quick-to-check combination of signals which indicate correct wiring, missing earth, live/neutral reverse, earth/live reverse, issing neutral, live faults, and those errors detected by the two pushbutton tests.

REAR

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP2004	$42.90	$38.60	$34.30

Travel Adaptors - Inbound

For use in Australia or New Zealand.

EARTHED MAINS ADAPTOR

This universal adaptor converts 3 pin plugs from USA or UK to match 3 pin outlets in Australian and New Zealand. Also compatible with the unearthed 2 pin Europlug common throughout Europe.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4027	$12.90	$11.30	$10.30

EUROPE/USA/JAPAN

For use by visitors from all over the world (except South Africa & India).

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4020	$17.90	$16.10	$14.30

USA & EUROPE

Accepts overseas 2 and 3 pin plugs and adapts to Australia and New Zealand. For use with electrical appliances from Europe, USA, and some Asian and South American countries.

- Does not convert voltage.
- Approval Number NSW21745
- 50(D) x 52(W) x 52(H)mm

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4050	$11.90	$10.70	$9.50

warning!
These adaptors do not convert voltage. Item being connected must be suitable for 220-240VAC!

EUROPE AND USA WITH USB

Suitable for plugging overseas appliances from Europe, Bali, USA and Japan into Australia/New Zealand power sockets. Also provides a USB charging port with 1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4043	$24.90	$22.40	$19.90

UNIVERSAL TRAVEL ADAPTOR WITH USB

Suitable for plugging overseas appliances into Australia/New Zealand power sockets. Also provides a USB charging port with 2.1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage.

- Suitable for 240V 50Hz mains

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4040	$24.90	$22.40	$19.90

p.345 - stepdown transformers

Travel Adaptors - Outbound

MAINS ADAPTOR UNEARTHED FOR USA OR JAPAN

This travel adaptor is designed for use on 2 pin Australian appliances while travelling in Japan or the USA. Only suitable for items without an earth pin such as most mobile phone chargers and laptop power supplies.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4026	$12.90	$11.30	$10.30

MAINS ADAPTORS FOR AUSTRALIA & NZ GOING OVERSEAS

SAA approved

They DO NOT convert voltage, but allow you to plug into various types of wall outlets around the world.

USA

USA CANADA EARTHED PP4025

EUROPE

EUROPE MD EAST UK ASIA PP4023

GREAT BRITAIN

UK HONG KONG SINGAPORE EARTHED PP4024

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4025	$12.90	$11.30	$10.30
	PP4023	$12.90	$11.30	$10.30
	PP4024	$12.90	$11.30	$10.30

INDIA/SOUTH AFRICA MAINS TRAVEL ADAPTOR

Electrical appliance adaptors for Australians travelling overseas to India or South Africa.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4028	$11.90	$10.70	$9.50

OUTBOUND MAINS TRAVEL ADAPTOR 3 PACK TO SUIT USA, EUROPE AND UK OUTLETS

Take your Australian & New Zealand mains appliances overseas, and don't pay a fortune for travel adaptors at the airport. This 3-pack includes adaptors for USA, Europe, and UK style mains outlets, and will cover over 150 countries (See website for list).

Note: adaptors do not change voltage. Check your appliance's compatibility with the local voltage before connecting.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4029	$28.90	$25.90	$22.90

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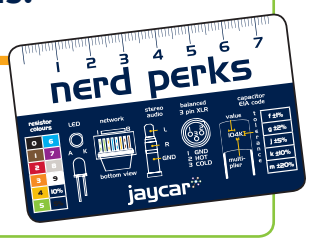

pick me — Travel Adaptors Selection Guide

Country	Australian to (Outbound)	Includes USB Charger	To (Inbound) Australian	Includes USB Charger
Europe	PP4042 PP4023 PP4047 PP4029	Yes No Yes(4) No	PP4050 PP4043	No Yes
Great Britain / Hong Kong	PP4044 PP4024 PP4049 PP4029	Yes No Yes(4)	PP4027 PP4040	No Yes
India	PP4028	No		
Japan	PP4048 PP4026	No	PP4020 PP4050 PP4043 PP4040	No No Yes Yes
Japan 2 Pin	PP4048 PP4026	Yes	PP4020 PP4050	No No
South Africa	PP4028	No		
USA	PP4046 PP4025 PP4045 PP4029 PP4026 PP4048	Yes No Yes (4) No No Yes	PP4050 PP4027 PP4043 PP4040	No No Yes Yes

Travel Adaptors - USB

AUSTRALIA TO UK/HONG KONG

Suitable for taking your Australia/ New Zealand appliances overseas to plug into UK/Hong Kong power sockets.

SAA approved

	Cat.	Qty 1+
1 x USB	PP4044	$12.90

AUSTRALIA 3 PIN TO USA

Suitable for taking your Australia/ New Zealand appliances overseas to plug into 3 pin earthed USA power sockets.

SAA approved

	Cat.	Qty 1+	Qty 4+
1 x USB	PP4046	$12.90	$11.90

warning!

These adaptors do not convert voltage. Item being connected must be suitable for 220-240VAC!

AUSTRALIA 2 PIN TO JAPAN

Suitable for taking your 2 pin Australia/New Zealand appliances overseas to plug into 2 pin un-earthed Japan/ USA power sockets.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB	PP4048	$24.90	$22.40	$19.90

OUTBOUND UK & HK MAINS TRAVEL ADAPTOR

Suitable for taking your Australia/ New Zealand appliances overseas to plug into UK/Hong Kong power sockets. Also provides 4 USB charging ports with 3.15A total output current.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB	PP4049	$28.90	$25.90	$22.90

OUTBOUND USA MAINS TRAVEL ADAPTOR

Will let you use Australian appliances in the USA and Canada. Also provides 4 USB charging ports with total output of 2.1A current to charge your Tablet or Smartphone.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 x USB	PP4045	$28.90	$25.90	$22.90

OUTBOUND EUROPE TRAVEL MAINS ADAPTOR

Will let you use Australian appliances in Europe, Bali and several other regions. Also provides 4 USB charging ports with 2.1A total output current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 x USB	PP4047	$28.90	$25.90	$22.90

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mains hardware:

MAINS POWER SWITCHES & GPOS

Tradies pay attention!! Finally, there is a discount alternative to the big brand names! Despite being made in China, this range of general purpose outlets (GPOs) & light switches are all made with the highest quality materials and feature an attractive finish you would be happy to show inside your home. The switches are the same hardwearing long service life type you'll find in the big brand names, and best of all - the price is lower. The savings really start to add up when wiring up the garage or a whole house. They are all fully approved to Australia/New Zealand safety standards, so you don't have to take only our word to ensure quality.

p.164 Wall plate adaptors

240VAC SINGLE ARCHITRAVE LIGHT SWITCH

Single architrave light switch suited for door frames.

- 10A 2-Way switch
- Narrow profile for architrave mounting
- White colour

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Switch	PS4051	$5.30	$4.70	$4.10

MAINS LIGHT SWITCHES

Standard GPO size light switch.
240V 10A rated.

- Safety Approval No. SAA121203EA

	Approval	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Switch	SAA12103EA	PS4055	$5.90	$5.20	$4.70
Double Switch	SAA12103EA	PS4057	$7.90	$7.20	$6.50

GENERAL PURPOSE OUTLETS - GPOS

These switches are the same hard wearing long service life type you'll find in the big brand names and best of all - the price is lower. The savings really start to add up when wiring up the garage or a whole house. They are all fully approved to Australia/New Zealand safety standards, so you don't have to take only our word to ensure quality.

- Safety Approval No.: ESV120046
- Packaged in a handy trade-style polybag

Note: the screws included with these have a slightly different pitch to the standard 3.5 x 0.8mm, but should still fit plasterboard mounting plates etc.

	Cat.	Qty 1+	Qty 4+	Qty 10+
Double GPO	PS4060	$8.90	$7.90	$6.90
Double GPO with extra switch	PS4046	$11.90	$10.70	$9.50

DOUBLE GPO WITH 2- POLE SWITCHES FOR CARAVANS & MOTORHOMES

1 YEAR WARRANTY

By law, caravans, motorhomes and other recreational vehicles require a GPO with double pole switch that disconnects both the Active and Neutral to reduce the chance of electric shock.

- 240V 10A rated
- Includes mounting screws

SAA approved

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS4069	$24.90	$22.40	$19.90

240V GPO WALL SOCKET WITH 4 X USB 3.15A OUTPUT

This hardwired USB adaptor will fit into a standard GPO wall plate base and give 4 USB power sockets with a total of 3.1 amps. Use it to power or charge pretty much anything that takes power from a USB socket. Instructions are included, however, all fixed wiring products must be installed by a licensed electrician!

1 YEAR WARRANTY

	Cat.	Qty 1+
4 x USB	PS4071	$16.90

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DOUBLE GPO WITH 2 X USB CHARGING PORTS

1 YEAR WARRANTY

Reduce the amount of USB power supplies that clutter your power outlets. Combining two GPO mains outlets with two 2.1A capable USB outlets, you can charge and power all those USB devices with just the cable! The ports themselves feature spring-loaded dust covers, to keep the contacts clean and free from dust when not in use. The mains (GPO) outlets are standard 240AC 10A outlets. It's a direct replacement for your standard GPO fittings. Features a removable facia plate for no-fuss painting too.

- 2 x 2.1A 5V USB Outlets
- 2 x 10A 240V GPO mains sockets
- Direct replacement for other standard Australian GPO plates
- Electrical safety authority approved

SPECIFICATIONS	PS4065
GPO Max Output	240VAC @ 10A
USB Max Output	5VDC @ 2.1A
Face Plate Depth	17mm (12mm excluding switches)
Recess Depth	23mm
Dimensions	118(W) x 72(H) x 35(D)mm (total)

	Cat.	Qty 1+	Qty 4+	Qty 8+
Double GPO + 2 USB	PS4065	$36.90	$32.90	$28.90

SURFACE MOUNT BLOCKS

Standard mounting blocks for powerpoints and wall switches, or any other standard wallplates.

Depth	Cat.	Qty 1+	Qty 10+	Qty 50+
16mm	PS4063	$5.90	$5.20	$4.70
34mm	PS4062	$7.90	$7.20	$6.50

PLASTER BOARD BRACKET

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3033	$3.90	$3.10	$2.70

FLAT GPO MOUNT BRACKET

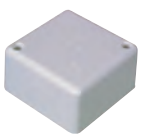
Mounting bracket for standard wall plate to be mounted on plasterboard.

- Install before plasterboard.

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS4077	$2.50	$2.00	$1.90

JUNCTION BOX

Size 70 x 70 x 37(D)mm.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS4066	$9.90	$8.50	$7.50

240V 32A "BP" MAINS CONNECTORS

Available as a pack of 10 standard single screw connectors and 2 double screw. Ideal for safe, reliable earth connections. "BP" style connectors, also known as acorns. (Double screw are for earth).

- 8 single and 2 double per pack

	Cat.	Qty 1+	Qty 10+	Qty 50+
Pkt 10	HM3192	$11.90	$10.70	$9.50

For next day delivery, or Click and Collect, see page 5

Mains Hardware CONTINUED

POWER LEAD 3 PIN

3 Pin 240V AC plug with 2 metres of 3 core cable to bare ends with lug on earth.

- Latest models with insulated pins
- 7.5A.

	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	PS4110	$7.90	$7.20	$6.50

240V LINE PLUG 10A

- Safety clear plastic cover
- Latest models with insulated pins

Cat.	Qty 1+	Qty 10+	Qty 50+
PP4000	$4.90	$4.10	$3.70

SIDE ENTRY 10A LINE PLUG 240V

- Latest models with insulated pins

Cat.	Qty 1+	Qty 10+	Qty 50+
PP4001	$5.90	$5.20	$4.70

2 PIN 32 VOLT PLUGS & SOCKETS

For low voltage applications such as caravans etc up to 15amps.

Line Sockets PS2073 — *Line Sockets* PS2074 — *Line Sockets* PP2075

Cat.	Qty 1+	Qty 10+	Qty 50+
PS2073	$24.90	$22.40	$19.90
PS2074	$24.90	$22.40	$19.90
PP2075	$11.90	$10.70	$9.50

240V 10A MAINSLINE SOCKET

- Safety type.

Cat.	Qty 1+	Qty 10+	Qty 50+
PS4008	$9.90	$8.50	$7.50

MAINS PANEL SOCKET 10A

Flush mounting 3 pin mains socket. Ideal for many situations where the socket cannot protrude far from its mounting bracket.

Cat.	Qty 1+	Qty 10+	Qty 50+
PS4094	$9.90	$8.50	$7.50

MAINS SURFACE SOCKET - 10A

3 pin mains socket, where there is plenty of external room. No need to cut large hole in panel - only for wiring.

Cat.	Qty 1+	Qty 10+	Qty 50+
PS4092	$9.90	$8.50	$7.50

240V LINE MAINS POWER PLUG 15A

Flexible 15A plug (larger Earth pin) with clear body for easy visual check on proper connections. Features an external cord grip and suction boot to prevent ingress into screw terminals and connections.

1 YEAR WARRANTY

SPECIFICATIONS	PP4006
Rated Voltage	250VAC
Rated Current	15A
Enclosure Colour	Clear
IP Rating	IP20
Terminal Type	Screw
Cable Diameter (Max.)	10mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
15A Plug	PP4006	$5.90	$5.30	$4.70

240V CORDLINE SWITCH

Inline cord switch for 2 and 3 core cable up to 10 amps. Switches both neutral and active wires.

- Suitable for AC mains only.

Cat.	Qty 1+	Qty 10+	Qty 50+
PS4075	$24.90	$22.40	$19.90

MAINS PANEL SOCKETS WITH COVER

Mains panel socket - spring loaded cover

- Approval no: ES0140170

10A 250VAC

- 50(H) x 50(W) x 27.6(D)mm PS4095

15A 250VAC

- 62(H) x 50(W) x 27.7(D)mm PS4097

	Cat.	Qty 1+	Qty 10+	Qty 50+
10A	PS4095	$8.50	$7.60	$6.80
15A	PS4097	$7.90	$7.10	$6.30

automatic account

For Government Departments, Schools, Public Companies, Radio & TV Stations

240V MAINS LINE POWER SOCKET 15A

Clear extension 15A socket with a flexible PVC cover giving complete visibility to screw terminals. Features a cord locking nut and screwed clamp terminals. Useful for 3 core 1.5mm square millimetre ordinary and heavy duty flexible cords.

SPECIFICATIONS	PS4004
Rated Voltage	250VAC
Rated Current	15A
Enclosure Colour	Clear
IP Rating	IP20
Terminal Type	Screw
Cable Diameter (Max.)	10mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
15A Socket	PS4004	$10.90	$9.80	$8.70

15A SIDE ENTRY MAINS PLUG

Features thick mains pin used on 15A outlets. Right angle entry for convenience behind furniture and other objects. Screw terminals with 10mm cable entry and lock nut.

- SAA approved
- Low profile
- 45° cable entry

NEW

SPECIFICATIONS	PP4002
Material	PVC
Voltage	240VAC
Current	15A

Cat.	Qty 1+	Qty 10+	Qty 50+
PP4002	$6.90	$6.20	$5.50

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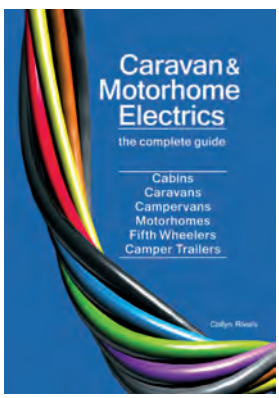
Caravan & Motorhome Electrics Book

CARAVAN & MOTORHOME ELECTRICS

A comprehensive text written primarily for owners, designers and builders of caravans, campervans and motorhomes who face unique power demands and challenges that most auto electricians are ill-equipped to properly address. The book covers every aspect of designing, installing and fixing the electrical systems in all type of caravans, camper-trailers and motor-homes. It explains how things work without the sales pitch jargon, and shows how to dramatically increase power efficiency as well as how to install solar power. Written with emphasis on proven techniques that work, rather than ideas that might work. Written by acclaimed Australian author and field expert Collyn Rivers, this is an essential reference for all caravan and motorhome enthusiasts

- Softcover, 96 pages, 297 x 210mm (A4)



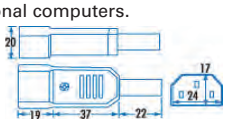
Cat.	Qty 1+
BE1536	$59.90

Plugs & Sockets

LINE MALE

Widely used in personal computers.

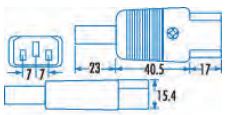
- Safety approved number NSW21518
- IEC320 C14
- 240V



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4007	$8.90	$7.90	$6.90

LINE FEMALE

- Safety approved number NSW21510
- IEC320 C13
- 240V



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS4006	$7.90	$7.20	$6.50

HIGH TEMPERATURE IEC320 C15 SOCKET

Intended for service in higher temperature enviroments up to 120˚C at a current rating of 10 Amps. Incorporates a keyway which prevents being used with standard temperature IEC320 C14 connections.

- Electricity Authority Approved (Approval no: NSW21510)

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS4013	$11.90	$10.70	$9.50

IEC320 C13 RIGHT ANGLE LINE SOCKET

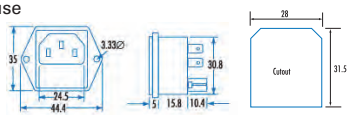
Right angle IEC socket for installations where wall space or rack space is extremely limited. Create much neater connections to your devices.

- Strain relief rubber cable entry
- Dimensions: 68(H) x 35(D) x 28(W)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4012	$10.90	$9.90	$8.90

MALE CHASSIS WITH FUSEHOLDER

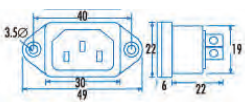
- Size 35(H) x 44(W) mounting holes 36mm apart
- Cutout 31.5(H) x 28(W)mm
- M205 fuse
- IEC320
- 240V



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4004	$8.90	$7.90	$6.90

MALE CHASSIS

- Size 50(W) x 22(H)mm
- Mounting holes 40mm apart
- IEC320
- 240V
- Unfused and non-switched

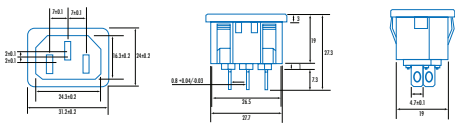


	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4005	$4.90	$4.10	$3.70

SNAP-IN MAINS PLUG

Panel-mounting IEC mains socket. Unfused and non-switched.

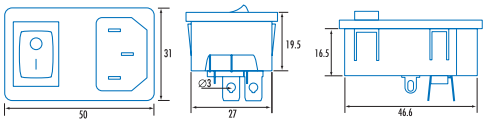
- Panel thickness: 0.8 - 3mm
- Cutout size: 27 x 19mm
- Rated for 250VAC at 10A



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4009	$5.90	$5.20	$4.70

CHASSIS MALE WITH SWITCH & FUSE

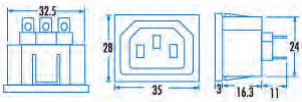
- DPST switch.
- M205 size fuseholder
- Max 10A, 250V
- IEC320



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP4003	$9.90	$8.50	$7.50

CHASSIS SOCKET FEMALE

- Simply snaps in
- Rated at 250V 10A
- IEC320



	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS4002	$5.90	$5.20	$4.70

RUBBER COVERS

Slip over the back of the above IEC connectors to cover the mains terminals.
SMALL: Suits Cat PP4005 & IEC filters
LARGE: Suits Cat PS4002 & PP4004

	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	PM4015	$3.50	$2.90	$2.70
Large	PM4016	$3.90	$3.10	$2.90

EMI POWER LINE FILTER - 6 AMP

These Industry standard design RF/EMI filters are designed to reduce line - to - ground (common mode) interference. They accept a standard IEC power line convertor and are panel mounted. They meet (or exceed) international standard leakage requirements and are rated for mains voltages of 115 to 250V, 50, 60Hz. Safety & construction are in compliance with UL, CSA, VDE etc.

- Cutout 27 x 21mm
- IEC320

	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS4003	$11.90	$10.70	$9.50

Foreign Plug Leads

IEC320 POWER MAINS LEADS

To suit 3 different regions/countries. We have had so many enquiries for these products that we now stock the following range which are black in colour and are all earthed.

USA

3 x 18AWG (41 x 34 strands) cable rated at 250/300V @ 10 amps.

- Temperature rated at 60° C and approved to UL817, CSA C.22.3 N.42, JIS C3306, C8303 and NEMA 5-15.

PS4140

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS4140	$19.90	$17.90	$15.90

UK

3 x 0.75mm² (24 x 0.21 strands) cable rated at 500V @ 6 amps 250V @ 10 amps.

- Temperature rated at 70°C and approved to UK spec BS 1363-84

PS4142

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS4142	$19.90	$17.90	$15.90

EUROPE/GERMANY

3 x 0.75mm² (24x0.21 strands) cable rated at 500V @ 6 amps 250V @ 10 amps.

- Temperature rated at 70°C and approved to CEE (7) & VDE standards
- N15464 PS4144

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS4144	$19.90	$17.90	$15.90

For next day delivery, or Click and Collect, see page 5

Power Leads

2 PIN POWER LEAD

Black 240V 2 pin power lead as used in many appliances, eg: portable Hi-Fi, shavers etc.

- Universal round IEC C7 connector
- Not earthed
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS4115	$7.90	$7.20	$6.50
5.0m	PS4117	$14.90	$13.30	$11.70

CLOVER LEAF

3 pin clover type to 240V plug

- 1.8 metres long
- Earthed
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS4120	$8.90	$7.90	$6.90

IEC Leads

STRAIGHT IEC FEMALE TO 240V PLUG

- 1.8 metres long
- Earthed
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS4106	$10.90	$9.50	$8.50

STRAIGHT IEC FEMALE TO 240V PLUG - 5M

Extra long mains lead (5 metres) to allow more options with equipment placement or for eliminating an extension lead.

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5.0m	PS4105	$16.90	$14.90	$13.30

RIGHT ANGLE IEC FEMALE TO 240V PLUG

- Earthed
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m NEW	PS4111	$7.90	$7.10	$6.30
1.8m	PS4107	$11.90	$10.70	$9.50

15A IEC C19 FEMALE TO 240V PLUG

- 1.8 metres long
- 15A
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS4124	$17.90	$15.90	$13.90

IEC MALE TO 3 PIN (GPO) FEMALE

Ideal for connecting a standard powerboard to a UPS etc.

- SAA approved
- 150mm long

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	PS4100	$11.90	$10.70	$9.50

IEC FEMALE TO IEC MALE

- 1.8 metres long
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS4108	$10.90	$9.50	$8.50

IEC MALE TO 2 X IEC FEMALE

Splits "switched" outputs - on the back of a PC that powers the monitor. Then turn on another device - like a printer, desk lamp... anything with an IEC male.

- Length 2.0 metres
- SAA Approved

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS4104	$21.90	$19.30	$16.90

240V MALE TO 2 X IEC FEMALE

- 540mm before join, each output 1550mm long

SOANAR

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS4102	$21.90	$19.70	$17.30

3 OUTLET IEC MAINS LEAD

Ideal for multiple monitors, computers, servers, and so much more. The lead is 1.8m overall, but at the half-way point it splits into three, to provide three IEC power plugs.

Drastically reduces powerboard clutter.

- Rated: 240VAC @ 10A / 2400W Max.

Length	Cat.	Qty 1+
1.8m	PS4103	$22.90

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Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

pick me Battery Chargers

	MB3557	MB3514	MB3549	MB3563	MB3555	MB3702	MB3638	MB3635	MB3701	MB3639	MB3581	MB3629	MB3633
Power Input	USB	240V	12/240V	240V	240V	USB	USB	USB/12V	12/240V	12/240V	12V	240V	240V
Charges Ni-MH	•	•	•	•	•	•	•	•	•	•		•	•
Charges Ni-Cd	•	•		•	•	•	•	•	•	•			•
Charges Li-ion						•	•	•	•	•	•	•	•
Charges Li-Po							•	•				•	•
Charges AAA	•	•	•	•	•	•	•	•	•	•			
Charges AA	•	•	•	•	•	•	•	•	•	•			
Charges C		•			•			•					
Charges D		•			•			•					
Charges 9V		•			•								
USB Outlets					•		•		•	•			
Fast Charge					•	•	•	•	•	•		•	•
Discharges					•								•
Page	363	363	363	363	364	364	364	364	364	364	365	365	365

UNIVERSAL 4 CHANNEL NI-MH BATTERY CHARGER WITH LED INDICATOR

NEW

Ultra portable, take it anywhere! Individually monitored channels with LEDs for quick-glance charging status. USB powered for universal operation. Suitable for AA and AAA Ni-MH batteries. Steady charge rate to keep your batteries in top shape.

- 4 channels with individual monitoring
- Universal USB power
- Compact and lightweight

SPECIFICATIONS	MB3557
Input	5VDC, 1A
Output	AA: 160mA AAA: 70mA
Charge Time	AA: 8-11 Hours (1000-1500mAh), 12-16 Hours (1600-2100mAh) AAA: 10-16 Hours (500-800mAh)
Weight	55g
Dimensions	68(W) x 98(H) x 25(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3557	$16.90	$14.90	$13.90

UNIVERSAL NI-CD/NI-MH BATTERY CHARGER WITH CUT-OFF

1 YEAR WARRANTY

An affordable universal battery charger that will re-charge Ni-MH/Ni-Cd batteries in AA, AAA, C, D as well as 9V. It will also ensure long battery life by cutting off the voltage when they are fully charged. The unit can charge in various configurations, for example 2 x 9V and 4 x AA batteries simultaneously.

- Recharges: AAA, AA, C , D and 9V batteries
- Cut-off function
- Accepts various combinations of batteries
- Dimensions: 199(L) x 100(W) x 46(H)mm

Batteries must be charged in pairs excluding 9V.

Note: Batteries not included

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3514	$34.90	$31.90	$27.90

2 HOUR FAST CHARGER FOR AA/AAA NI-MH BATTERIES

Recharge up to four AA or AAA Ni-MH batteries. This handy charger, which utilises Delta V voltage detection, charges batteries to their optimal level to ensure long life. Charge state can be monitored on the integrated electric blue LCD. Charge on the go with the car cigarette lighter cord included as well as the mains plugpack.

- Easy to read and backlit LCD
- Includes bad cell detection
- Charge at the home, office or on the road
- Delta V detection and cut-off
- 1150mA charging current for AA batteries
- 600mA charging current for AAA batteries
- Supplied with mains plugpack and car charging cable
- Dimensions: 105(L) x 68W) x 30(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3549	$36.90	$33.20	$29.50

PANASONIC® NI-MH BATTERY CHARGER WITH 4 ENELOOP BATTERIES

1 YEAR WARRANTY

Charges both AA and AAA batteries and includes 4 x AA pre-charged. Eneloop batteries. Eneloop batteries are ready for action straight from the shelf as they discharge at an extremely low rate. They can be recharged approximately 1,800 times (compared to approx 500 times for a regular rechargeable).

- Plug-in style wall charger (240V)
- Approx. 10 hour charge time
- Includes 4 x AA Eneloop 2,000mAh batteries
- Dimensions: 75(W) x 118(H) x 40(D)mm

Batteries included

	Cat.	Qty 1+
	MB3563	$48.90

find out more in store

Our staff offer friendly and helpful service. We're here to help.

For next day delivery, or Click and Collect, see page 5

AAA, AA & 9V Battery Chargers CONTINUED

UNIVERSAL MULTI-CHANNEL NI-MH/NI-CD FAST CHARGER WITH LCD DISPLAY AND USB OUTPUT

This is a powerful, yet flexible, fast charger for all those standard (AA/AAA/C/D) rechargeable cells (Ni-MH or Ni-Cd), up to 6 at a time, including 2 exclusive slots for 9V rechargeable batteries. Up to 1A charging per cell (depending on size) means typical AA cells will only take a couple of hours to charge. Feedback on charging status is provided thanks to an informative LCD panel and status lights. It also provides a convenient 1A USB outlet, so you can charge your smartphone, tablet or any other USB powered device. This unit does not charge rechargeable Lithium or Alkaline cells.

- Quick charge
- USB output
- Intuitive LCD display
- LED indicators (various modes)
- Dimensions: 180(W) x 144(D) x 55(H)mm

Note: Batteries not included.

SPECIFICATIONS	MB3555
Input Voltage	100-240VAC @ 450mA, 50/60 Hz
Charging Output	**AA:** 6 x 1.2V @ 1000mA / 6 x 1.2V @ 500mA / USB
	AAA: 6 x 1.2V @ 500 mA / 6 x 1.2V @ 250 mA / USB
	C/D: 4 x 1.2V @ 1000mA **C/D:** 4 x 1.2V @ 500mA / USB
	9V: 2 x 9V @ 70mA **9V:** 2 x 9V @ 35mA / USB
USB Output	5VDC @ 1A

	Cat.	Qty 1+	Qty 2+	Qty 4+
Universal Multi-Channel Charger	MB3555	$69.90	$62.90	$55.90

SINGLE-CHANNEL LI-ION / NI-MH BATTERY CHARGER

Designed to charge a 3.7V rechargeable Li-ion battery of any size from 10440 to 26650, or a 1.2V AA, AAA Ni-MH/Ni-Cd battery. Simply plug the charger into an available USB port on a computer or USB mains adaptor, then insert your battery into the spring-loaded slot. The smart charger will automatically identify the battery type and apply the optimum charging voltage and current for that battery type. Thanks to the integrated backlit LCD, you will be able to read the battery's voltage, percentage of power, and the charging capacity, as it charges. The screen will flash when the battery is fully charged. Supplied with a USB lead.

- LCD Screen
- Charge 3.7V Li-ion
- Charge 1.2V AA & AA Ni-Cd/Ni-MH

1 YEAR WARRANTY

SPECIFICATIONS	MB3702
Input Voltage	5VDC 1A
Charging Output	Li-ion: 4.2V @ 1A Ni-MH/Ni-Cd: 1.4V @ 500mA

	Cat.	Qty 1+	Qty 2+	Qty 4+
Single Channel	MB3702	$22.90	$20.90	$17.90

UNIVERSAL LI-ION CYLINDER BATTERY CHARGER WITH USB

Can accommodate 1 or 2 AA Ni-Cd/Ni-MH batteries or a variety of cylinder shaped Li-ion/Li-Po batteries. It achieves this with an adjustable battery contact. There is also a handy USB port that outputs 2.1A so you can charge your iPad® and Smartphones with ease. Compact size for easy transportation. Includes 5V 2.1A mains adaptor.

1 YEAR WARRANTY

SPECIFICATIONS	MB3638
Ni-Cd/Ni-Mh Charging	1.4V 1000mA
Li-Polymer/Li-Ion Charging	3.7V 1000mA
Suitable For	18650, 14500, 18500, 17670, 17500, 16650, 22650
Dimensions	110(L) x 48(W) x 27(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3638	$36.90	$33.20	$29.50

DUAL-CHANNEL LI-ION / NI-MH BATTERY CHARGER

Features a ~4.2V charging mode for lithium based batteries, and a ~1.48V charging mode for nickel based batteries. Charges and monitors both charging lanes independently, for the best conditioning of your batteries. LCD provides feedback on charge time, current, and battery voltage. Provides bad-cell detection as well as reverse battery / short circuit protection. Supports charging of LiFePo4, Li-ion, Ni-MH, and Ni-Cd batteries.

- Dimensions: 67(W) x 129(H) x 32(D)mm

1 YEAR WARRANTY

SPECIFICATIONS	MB3635
Input	5VDC @ 2A (micro USB) / 12VDC car power
Output	Lithium: 4.2VDC 500/1,000mA (Li-ion) / 3.7VDC 500/1,000mA (LiFePo4), Nickel: 1.48VDC 500mA (Ni-MH / Ni-Cd)
Charging Current	500mA / 1,000mA
Batteries Supported	Li-ion / LiFePo4: 26650, 22650, 18650, 18490, 18350, 17670, 17500, 14500, 10440, 16340, Ni-MH / Ni-Cd: AA, AAA, AAAA, C, D, SC

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3635	$45.90	$40.90	$35.90

UNIVERSAL LI-ION/NI-CD/NI-MH FOUR CHANNEL BATTERY CHARGER WITH 1A USB OUTPUT

This handy unit provides mains and 12V car power options, so you can charge batteries at home or on the go. It provides charging for up to four Li-ion, Ni-MH, or Ni-Cd batteries. Providing up to 1000mA charging (500mA per battery when using all four channels) for fast recharging. Suitable for AA and AAA sized batteries, it's also suitable for high capacity Li-ion batteries such as 14500 Li-ion cells. It intelligently detects batteries to select the correct charge voltage. It also provides a handy 1A USB outlet for charging all sorts of USB devices.

- Mains lead and 12VDC power lead supplied
- Charges Li-ion, Ni-MH, Ni-Cd compatible
- See our website for full list of compatible batteries
- 1A USB outlet included
- Dimensions: 92(W) x 157(H) x 32(D)mm

SPECIFICATIONS	MB3701
Batteries	Li-ion, Ni-CD, Ni-MH
Input	AC 100-240V @ 50/60Hz DC 12V @ 1.5A
Output	Li-ion: 4.2VDC @ 500mA x 4, 1000mA x 2 Ni-MH/Ni-Cd 1.48VDC @ 500mA x 4 USB: 5VDC @ 1000mA
Weight	186g

	Cat.	Qty 1+	Qty 2+	Qty 4+
Four Channel	MB3701	$45.90	$40.90	$35.90

UNIVERSAL LI-ION/NI-CD/NI-MH BATTERY CHARGER

1 YEAR WARRANTY

This cleverly designed model charges various Li-ion battery packs, as well as AA, AAA or 9V Ni-MH and Ni-Cd rechargeable batteries. Housed with a spring loaded cover for clamping down batteries, two Delta-V controlled single cell channel and two adjustable contact pins which are polarity sensing for that added convenience. A USB port on the side accommodates the charging needs for your iPhone®, Smart phone or any USB power device. Topped off with an LCD for displaying the battery type, voltage and charge status. Perfect for digital camera, cordless phone and MP3 player batteries. The charger is supplied with both mains and car adaptors.

- Suitable for: 1 x 3.6V or 7.2V Li-ion battery packs
  1-2 x AA/AAA Ni-MH or Ni-Cd batteries
  1 x 9V Ni-MH
- USB output: 5VDC, 500mA
- Dimensions: 120(L) x 62(W) x 35(H)mm

Note: iPhone®, charging cable and batteries not included

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3639	$49.90	$44.90	$39.90

Battery Chargers CONTINUED

LI-ION CR123A BATTERY CHARGER WITH BATTERY

CR123A batteries are commonly used in some LED torches and many cameras but the replacements are expensive. Now there's a rechargeable option with this lithiumion CR123A battery & matching charger. Normally, Li-ion batteries have a nominal voltage of 3.7V, which being higher than a normal CR123 battery can damage the sensitive circuitry of LED torches and cameras - but this battery is different! The battery features smart circuitry inside that drops the voltage to 3.0V under load, making it perfectly safe to use with sensitive electronics that normally use a 3.0V CR123 battery. The intelligent design will fully recharge the included battery in about 3 hours and shows an LED charge status indicator.

- Automatic charge control
- Short circuit & over voltage protection
- Supplied with mains plugpack and car charging cable
- Smart battery technology keeps nominal voltage to 3.0V
- Replacement CR123A 650mAh battery

CAT. SB2411 SOLD SEPARATELY.

MB3581

SB2411

BATTERY INCLUDED

SPECIFICATIONS	MB3581
Battery Voltage	3VDC
Charge Time	3 hours
Charger Input	12VDC
Dimensions	90(L) x 40(W) x 25(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
CR123A Charger with Battery	MB3581	$45.90	$40.90	$35.90
CR123A Battery	SB2411	$18.90	$17.00	$15.10

UNIVERSAL COMPACT BALANCE CHARGER

Balance charging provides greater control over the cells being recharged to help promote longevity and prevent overheating. This economic and high quality charger is capable of balance charging 2-4 cells (LiPo/LiFe/LiHV) or 6-8 cells (Ni-MH) batteries. Users can operate from one of selectable 1/2/3/4-amp modes for charging suitable battery capacities. Unit is mains powered.

- Suitable for LiPo/LiFe/LiHV/NiMH batteries
- Adjustable current: 1A/2A/3A/4A
- Short circuit & reverse polarity protection

SPECIFICATIONS	MB3629
AC Input	100-240V
Battery Type	LiPo/LiFe/LiHV/NiMH
Lithium Battery Cell Count	2-4 cells
NiMH Battery Cell Count	6-8 cells
Charge Current	1A/2A/3A/4A
Charge Power	50W
Current Drain for Balancing	300mA
Dimensions	72(W) x 111(D) x 40(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Universal Balance Charger	MB3629	$69.90	$62.90	$55.90

UNIVERSAL PROFESSIONAL BALANCE CHARGER/DISCHARGER

Balance charging is the ultimate way to monitor individual cells in battery packs, providing more accurate charging, improving the life of your battery packs. The charger includes PC connectivity and temperature sensing, in addition to the large LCD and pushbutton controls. Suitable for Li-Po, Li-Fe, Li-ion lithium packs, as well as NiMH/NiCd packs. An integrated discharge function can also perform as an auto charge/discharge cycle to help condition your batteries (especially useful for NiCd packs). It truly provides some of the most advanced charging around for multi-cell battery packs with balance charging capability.

- Memory to save 10 charge/discharge profiles
- Suitable for LiPo/LiFe/LiIon (1-6 cell), Ni-MH/Ni-Cd (1-15 cell) & PB (2-20V) batteries

SPECIFICATIONS	MB3633
AC Input	100-240VDC
Input	11-18V
Max Charge Power	50W
Max Discharge Power	5W
Charge Current Range	0.1-6A
Discharge Current Range	0.1-2A
Cell Count	LiPo/LiFe/LiIon: 1-6 cells NiCD/NiMH: 1-15 cells
Pb (Lead) Battery Voltage	2-20V
Dimensions	138(W) X 144 (D) X 36 (H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Universal Balance Charger	MB3633	$119.00	$106.90	$94.90

Battery Testers & Holders

BATTERY / BULB / FUSE TESTER

Battery tester with fuse and bulb checker. Tests AAA, AA, C, D (1.5V) & 9V batteries on the easy-to-read, colour-coded analogue display. It checks bulbs and fuses, giving a 'good' or 'replace' indication, and will also test larger 1.5V button batteries like the LR-44. There is also a handy compartment to store spare fuses, bulbs and button cells.

- Very accurate
- Dimensions: 150mm long
- Uses 9V Battery (included)

IF YOU ARE A SERIOUS BATTERY USER YOU WOULD BE CRAZY NOT TO OWN ONE OF THESE. KIDS ARE NOTORIOUS FOR THROWING GOOD BATTERIES IN THE BIN!

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP2252	$16.90	$15.20	$13.50

ALL IN ONE BATTERY TESTER

Here's a modern day battery tester to suit all your needs. This handy unit will test all types of batteries currently out there on the market including standard AA/AAA/C/D/9V batteries, button cells and lithium batteries such as those used in digital cameras. The LCD indicates the level of capacity so you'll never get caught out on a day trip with 1/2 flat batteries in your digital camera.

- One product to test all those batteries in your kitchen drawer before use!

Note: Batteries not included.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP2253	$28.90	$25.90	$22.70

UNIVERSAL BATTERY TESTER

Never trash a good battery again! This universal tester provides testing for most types of small rechargeable batteries, including a huge range of Lithium-based (LiFePo4, Li-Ion etc) batteries. You can test voltage, capacity, and internal resistance. Internal resistance is usually tied to the current charge level, however generally increases with a battery's age, it provides a good indication of battery health, most notably in Lithium-based rechargeable batteries. It also works with alkaline and various other non-rechargeable batteries.

- Tests over 11 types of batteries including cylindrical and button cells
- Test battery voltage, capacity (%), and internal resistance

See website for full list of compatible batteries.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP2260	$45.90	$40.90	$35.90

BATTERY ORGANISER WITH TESTER

Batteries are too expensive to waste and this well-designed organiser is an easy way to make the most of them. Hanging on a wall or flat in a drawer it holds 8 x D, 10 x C, 25 x AA, 10 x AAA and 8 x 9V batteries and you can store button batteries in the little drawer. There's even a removable tester so you can be sure each one is ready to use.

- 290(L) x 150(W) x 35(D)mm

Note: Batteries not included

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP2312	$20.90	$18.80	$16.70

4 X AA BATTERY CONTAINER PACK OF 2

Handy battery containers to store your AA batteries. Perfect for every digital camera owner who should have a spare set of batteries, charged and ready to go. Each container holds up to 4 x AA batteries and measure only 65mm wide, easily fitting in the pocket, purse or camera bag.

- One red and one blue supplied.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6359	$5.90	$5.30	$4.80

For next day delivery, or Click and Collect, see page 5

Nickel metal hydride Ni-MH rechargeable batteries:

Powerful rechargeable batteries with massive capacity for your power-hungry devices. Two types are available. Nipple cap, which are like your standard Alkaline batteries in style, and solder tabs, which are perfect for DIY projects due to their ease of installation and solder connection. If you've ever tried to solder to a regular Nipple Cap type cell, you'll know how tough and unreliable the connection can be. Ni-MH suffers no memory effect as Ni-Cd does, with huge capacities available in a range of standard sizes.

*Supplied in Blister Packs

Size	Current Capacity mAh	V	Per	Charging Rate Slow - 15 hours	Charging Rate Standard - 5 hours	Charging Rate fast - 1.5 hours	Terminal Type	Cat.	Qty 1+	Qty 8+	Qty 15+
AAA	900	1.2	EA	90	270	900	Nipple	SB1723	$3.90	$3.30	$2.90
AAA	900	1.2	EA	90	270	900	Solder tabs	SB1724	$4.90	$4.30	$3.90
AA	2000	1.2	EA	200	650	2000	Nipple	SB1706	$5.60	$5.00	$4.40
AA	2000	1.2	EA	200	650	2000	Solder tabs	SB1708	$5.90	$5.30	$4.70
AA	2400	1.2	EA	240	750	2400	Solder tabs	SB1728	$6.90	$6.20	$5.50
AA	2500	1.2	EA	260	800	2500	Nipple	SB1744	$6.90	$6.20	$5.50
AAA	900	1.2	Pkt 4*	90	270	900	Nipple	SB1739	$11.90	$10.90	$9.90
AA	2000	1.2	Pkt 4*	200	650	2000	Nipple	SB1737	$19.90	$17.90	$15.90
AA	2500	1.2	Pkt 4*	260	800	2500	Nipple	SB1738	$25.90	$22.90	$20.90

Size	Current Capacity mAh	V	Per	Charging Rate Slow - 15 hours	Charging Rate Standard - 5 hours	Charging Rate fast - 1.5 hours	Terminal Type	Cat.	Qty 1+	Qty 8+	Qty 15+
SUB C	3300	1.2	EA	350	670	3300	Solder tabs	SB1611	$11.90	$10.90	$9.50
D	9000	1.2	Pkt 2*	900	3000	9000	Nipple	SB1734	$56.90	$50.90	$44.90
SUB C	2400	1.2	EA	240	740	2400	Solder tabs	SB1617	$8.90	$8.00	$7.10
9V	200	8.4	EA	20mA	60mA		Clip	SB2467	$17.90	$16.10	$14.30
C	3000	1.2	Pkt 2*	450	1500	3000	Nipple	SB1736	$19.90	$17.90	$15.90
$17.90											

PANASONIC® ENELOOP NI-MH PRE-CHARGED RECHARGEABLE BATTERIES

This range of Panasonic® Eneloop batteries have numerous advantages over regular rechargeables. Key characteristics include low self-discharge, they are pre-charged so can be used right out of the packet, and can be recharged up to 1800 times. After 5 years of storage they will retain 70% of their capacity once fully charged.
A far more environmentally friendly option than churning through dozens of alkalines.

PANASONIC® ENELOOP NI-MH 1.2V 2000MAH - AA 2 PACK
SB2930

PANASONIC® ENELOOP NI-MH 1.2V 2000MAH - AA 4 PACK
SB2931

PANASONIC® ENELOOP NI-MH 1.2V 800MAH - AAA 2 PACK
SB2932

PANASONIC® ENELOOP NI-MH 1.2V 800MAH - AAA 4 PACK
SB2933

		Cat.	Qty 1+
AA 2000mAH	Pack 2	SB2930	$17.90
AA 2000mAH	Pack 4	SB2931	$31.90
AAA 800mAH	Pack 2	SB2932	$17.90
AAA 800mAH	Pack 4	SB2933	$31.90

PANASONIC® XX HIGH CAPACITY ENELOOP NI-MH 1.2V - 4 PACKS

For even more demanding applications the Panasonic® XX High Capacity range are perfect. They provide a massive 2500mAH capacity (AA size), can be recharged 500 times, and will retain 75% of their capacity after a year in storage. They can also be used in sub-zero temperatures (-20°C) without issue. The high capacity allows you to take up to 5x more pictures with your digital camera.

900MAH - AAA 4 PACK
SB2938

2500MAH - AA 4 PACK
SB2936

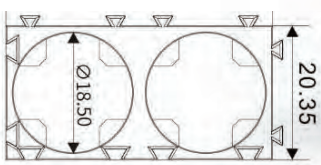
p.363 Eneloop Battery Charger

		Cat.	Qty 1+
AAA 900mAH	Pack 4	SB2938	$34.90
AA 2500mAH	Pack 4	SB2936	$34.90

18650 LITHIUM BATTERY MOUNTING BRACKETS

Designed to hold lithium batteries together to prevent them from rolling around in your power project. The interlocking design enables you to join more together for higher power applications.

- Supplied as a top and bottom pair
- Interlock tabs for joining multiple brackets
- Suitable for all 18xxx type Lithium batteries such as 18650, 18350, 18490 etc.



Lithium batteries not included

Type	Dimensions	Cat.	Qty 1+	Qty 10+	Qty 25+
Dual Battery Holder	42(W) x 22(H) x 9(D)mm	PH9256	$2.00	$1.80	$1.60
Triple Battery Holder	62(W) x 22(H) x 9(D)mm	PH9258	$2.20	$1.95	$1.75

Specialty Rechargeable Batteries

1.2V AAAA NI-MH BATTERIES 400MAH

NEW

Suitable for use in digital cameras, game controllers, toys, clocks, laser pointers, Stylus (Microsoft Surface Pen), and other devices that use AAAA batteries. Sold as a pack of 2.

- Ultra Slim Design
- Over 500 Charge Cycles

Type	Pack		Cat.	Qty 1+	Qty 8+	Qty 15+
AAAA	2	400mAh	SB1714	$7.90	$7.10	$6.30

NI-CD RECHARGEABLE BATTERY SUB C

SPECIFICATIONS	SB2468
Size	SUB C
Current Capacity	1800mAh
Voltage	1.2V
Charging Rate Standard	180mA for 14-16 hours1
Charging Rate Fast 4-5 Hours1	600mA
Terminal Type	Solder tabs

Note 1: At 20°C
Note 2: Similar to batteries used in the Braun electric toothbrush (2 required).

Type		Cat.	Qty 1+	Qty 8+	Qty 15+
Sub C	1800mAh	SB2468	$9.90	$8.50	$7.50

LONG LIFE PRE-CHARGED RECHARGEABLE BATTERIES - 1.2V

Features ultra-low self-discharge technology so they can be used immediately after purchase. It retains 85% of initial capacity after 1 year of storage, are environmentally friendly and ideal for the most demanding of modern digital devices.

WILL STAY CHARGED EVEN WHEN STORED FOR LONG PERIODS

Type		Cat.	Qty 1+	Qty 8+	Qty 15+
AA	Single - 2000mAh Solder Tags	SB1751	$6.90	$6.20	$5.50

HIGH DISCHARGE 3300MAH NI-MH SUB C BATTERY

Replacement for Ni-Cd batteries in power tools and other battery packs. This high discharge Sub C can discharge at over 40A making it clearly superior to the old Ni-Cd technology, effectively making it obsolete. Supplied fitted with quality solder tabs to make into battery packs either as replacements for Ni-Cd batteries or for new projects.

Type		Cat.	Qty 1+	Qty 8+	Qty 15+
Sub C	3300mAh	SB1611	$11.90	$10.90	$9.50

7.2V 3300MAH NI-MH RC BATTERY

High capacity, high current discharge Ni-MH pack for radio control cars. Fitted with standard "Tamiya" type plug.

Type	Cat.	Qty 1+	Qty 8+	Qty 15+
6 x Sub C 3300mAh	SB2314	$69.90	$62.90	$55.90

RECHARGABLE LITHIUM 3.7V 1020MAH BL5C

NEW

Rechargeable Li-ion Battery, BL-5C type

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
BL5C 3.7V 1020mAh	SB2291	$10.90	$9.90	$8.90

Cordless Phone Batteries

TELEPHONE BATTERIES TO SUIT UNIDEN PHONES

A collection of replacement batteries suitable for Uniden cordless phones. All are heat shrink wrapped with suitable connectors so it's a simple drop in replacement.

2.4V 800MAH NI-MH - 80AAM2BMS
SB1651

2.4V 650MAH NI-MH CTB97 - 65AAAH2BMS
Suits Uniden models: BT-652, BT652, CTB97
SB1653

2.4V 650MAH NI-MH CTB96 - 65AAAH2BMJ
SB1654

SB1651

SB1653

SB1654

		Cat.	Qty 1+	Qty 10+	Qty 20+
80AAM2BMS	2.4V / 800mAh	SB1651	$23.90	$21.50	$19.10
65AAAH2BMS	2.4V / 650mAh	SB1653	$23.90	$21.50	$19.10
65AAAH2BMJ	2.4V / 650mAh	SB1654	$23.90	$21.50	$19.10

p.315 - range of cordless phones

CORDLESS TELEPHONE BATTERIES - EXTENDED RANGE

Replacement batteries for cordless telephones.

3.6V 600MAH NI-MH

- Nominal voltage 3.6V
- Nominal capacity 600mAh
- Bank of three batteries next to each other
- Dimensions: 30(H) x 14(W) x 41(L)mm
- Supplied with lead and two pin Mitsumi plug.
- Suits Panasonic® KXT3716, 3806, 3826, 4026, 4027, 4036, 4046, 4047, 4300 & 4317
- Uniden CT301, XC360, XC310, XC320, XC340, XC610
- Also suits various Sony & James Hardie phones.

Cat.	Qty 1+	Qty 10+	Qty 20+
SB1645	$17.90	$16.10	$14.30

3.6V 650MAH NI-MH

- Nominal voltage: 3.6V
- Suitable for Panasonic® KXTC1220/KXTC1230
- GP Battery No. GP65AAAH3BMS

Cat.	Qty 1+	Qty 10+	Qty 20+
SB1646	$21.90	$19.70	$17.50

3.6V 1000MAH NI-CD

- Nominal voltage: 3.6V
- Suitable for Panasonic® KX-TC1801 - KT-TC1890
- GP Battery No. GP100AAS3BMS

Cat.	Qty 1+	Qty 10+	Qty 20+
SB1648	$23.90	$21.50	$19.10

3.6V 850MAH NI-MH

- Nominal voltage 3.6V
- Suitable for Uniden WDECT2315 - WDECT2310, DSS5805, 5855, 5865
- GP battery No. GP85AAALH3BMS

Cat.	Qty 1+	Qty 10+	Qty 20+
SB1634	$36.90	$33.20	$29.50

tech talk — LiFeP04

Lithium iron phosphate (LiFePO4) is a technology proving to overcome the safety concerns that exist with Lithium ION (Li-ION) and other lithium battery technologies because it is chemically more stable. In particular, LiFePO4 is able to deliver extremely high surge currents without risk of the battery chemistry breaking down (and the battery exploding), holds a charge for a very long time, and is far more stable when exposed to high heat and other environmental conditions.

tech talk — Protected vs Unprotected Li-Ion Batteries

With great power comes great responsibility. For the ultimate in protection, our SB2299 protected Li-ion battery provides safety while offering huge power. It's a great choice for novices, schools, and younger experimenters, or when you just want that added safety and piece of mind.

For next day delivery, or Click and Collect, see page 5

Li-ion Rechargeable Batteries:

Lithium technology has enabled huge portable power with minimal weight, critical for modern portable electronics. A range of nipple cap and solder tab batteries in varying capacites, allow you to select what you require for size, capacity, and budget.

14500 800MAH 3.7V NIPPLE
- Dimensions: 50(L) x 14(Dia.)mm SB2300

18650 2,600MAH 3.7V NIPPLE
- Dimensions: 65(L) x 18(Dia.)mm SB2308

26650 3,400MAH 3.7V NIPPLE
- Dimensions: 65(L) x 26(Dia.)mm SB2315

14500 800MAH 3.7V SOLDER TAG
- Dimensions: 50(L) x 14(Dia.)mm SB2301

18650 2,600MAH 3.7V SOLDER TAG
- Dimensions: 65(L) x 18(Dia.)mm SB2313

26650 3,400MAH 3.7V SOLDER TAG
- Dimensions: 65(L) x 26(Dia.)mm SB2319

SB2300 SB2301 SB2308 SB2313 SB2315 SB2319

Type				Cat.	Qty 1+	Qty 8+	Qty 15+
14500	800mAh	3.7V	Nipple	SB2300	$11.90	$10.70	$9.50
14500	800mAh	3.7V	Solder	SB2301	$13.90	$12.50	$11.10
18650	2600mAh	3.7V	Nipple	SB2308	$17.90	$15.90	$13.90
18650	2600mAh	3.7V	Solder	SB2313	$19.90	$17.90	$15.90
26650	3400mAh	3.7V	Nipple	SB2315	$22.90	$20.90	$17.90
26650	3400mAh	3.7V	Solder	SB2319	$24.90	$22.90	$19.90

LiFeP04 Rechargeable Batteries

LIFEPO4 RECHARGEABLE BATTERIES

Lithium iron phosphate (LiFePO4) is a more chemically stable type of lithium rechargeable cell that is becoming increasingly popular, due to the increased safety and longer cycle life over traditional Li-ion cells. They have a slightly lower capacity and nominal voltage than equivalent Li-ion cells, but can be charged/discharged around 2000 times (versus 500-1000 for Li-ion), and can deliver higher peak currents. We now offer a couple of common sizes:

14500 3.2V 600MAH LIFEPO4
- Capacity: 600mAh
- Dimensions: 14(diam) x 50(L)mm SB2305

18650 3.2V 1600MAH LIFEPO4
- Capacity: 1600mAh
- Dimensions: 18(diam) x 69(L)mm SB2307

26650 3.2V 3000MAH LIFEPO4
- Capacity: 3000mAh
- Dimensions: 68(L) x 21(Dia.)mm SB2317

SB2305 SB2307 SB2317

Type			Cat.	Qty 1+	Qty 8+	Qty 15+
14500	600mAh	3.2V	SB2305	$13.90	$12.90	$10.90
18650	1600mAh	3.2V	SB2307	$22.90	$20.90	$17.90
26650	3000mAh	3.2V	SB2317	$27.90	$24.90	$21.90

3.7V 18650 PROTECTED 2600MAH LI-ION RECHARGEABLE BATTERY

A powerful battery for many uses. Fully protected against over-charge, over-discharge, short-circuit, and over-current to keep the battery in good shape and devices safe. Provides critical protection for hobby and DIY projects.
- Light weight Li-ion
- More than 500 charge-discharge cycles

SPECIFICATIONS	SB2299
Battery Size	18650
Capacity	3.7V 2600mAh
Discharge Current	3.5A Maximum
Cut-Off Voltage	Charging: 4.2V / Discharging: 2.75V
Dimensions	18.5(Dia.) x 69.5(H)mm
Weight	48g

	Cat.	Qty 1+	Qty 10+	Qty 20+
18650 Protected 2600mAh Nipple	SB2299	$22.90	$20.90	$17.90

SAMSUNG HIGH DRAIN 2500MAH 20A 3.6V 18650 LI-ION BATTERY

NEW

This high quality Li-ion rechargeable battery by Samsung is an ideal replacement flat-top 18650 batteries in high power devices such as LED torches, power tools, portable fans, vapes, etc. It has a capacity of 2500mAh and a maximum continuous discharge of 20A.

Note: This is an unprotected rechargeable lithium battery, which is only suitable for use in a compatible device/charger. Use of an unprotected cell where a protected cell is expected is very dangerous, please review your product's user manual before proceeding.

SPECIFICATIONS	SB2298
Nominal Voltage	3.6V
Full Charge Voltage	4.2V
Discharge Cut-Off Voltage	2.5V
Protected	NO - Unprotected
Standard Charge	Constant Current: 1250mA Constant Voltage: 4.2V Cut-Off: 100mA
Rapid Charge	Constant Current: 4000mA Constant Voltage: 4.2V Cut-Off: 100mA

	Cat.	Qty 1+	Qty 10+	Qty 20+
18650 Unprotected 2500mAh	SB2298	$22.90	$20.90	$17.90

RECHARGEABLE 3V CR123A - LI-ION

Rechargeable CR123A
650mAh battery
- Use charger MB3581

p.365 charger to suit

Type		Cat.	Qty 1+	Qty 10+	Qty 20+
CR123A	650mAh	SB2411	$18.90	$17.00	$15.10

3.7V 16340 RCR123A RECHARGEABLE LITHIUM 4 PACK

New rechargeable RCR123A Lithium ion batteries designed specifically to work with compatible* security cameras (Uniden, Arlo etc.), flashlights, digital cameras, camcorders, electronic toys, alarm systems and more! They have a 700mAh (16% more than average RCR123A) capacity and can be recharged 500 times with no memory effect. Sold as pack of 4.

Recharge with a compatible Li-ion charger suited for RCR123A / 16340 batteries.
- Use charger MB3636, MB3701
- Dimensions: 16.8(Dia.) x 33.5(H)mm

Note: RCR123A Li-ion rechargeable batteries are a replacement for standard CR123A batteries in many applications but NOT ALL. These are rated 3.7V, not 3V as is a standard CR123A.

Always check the manufacturer label or user manual prior to using these batteries. Charge prior to first use. Do not mix non-rechargeable and rechargeable batteries in the device.

See website for full details.

	Cat.	Qty 1+	Qty 10+	Qty 20+
4 Pack	SB2294	$33.90	$29.90	$26.90

3.7V 18650 USB RECHARGEABLE LI-PO BATTERY

No external charger required, just a USB port. Simply flip-off the cap and plug it in to recharge! No cables, charger, or other fuss required.

SPECIFICATIONS	SB2309
Voltage	3.7V
Curent	1A
Capacity	1200mAh
Dimensions	63(H) x 19(Dia.)mm

		Cat.	Qty 1+	Qty 10+	Qty 20+
18650	1200mAh	SB2309	$28.90	$25.90	$22.90

Battery Holders - AAA Size

The holders are moulded in Delrin with corrosive resistant nickel plated springs & studs. All have connection wires 150mm long, unless marked. We can supply OEM quantities of holders with special configurations.

1 X AAA

PH9260

1 X AAA PCB Mount

PH9261

2 X AAA Cell

PH9226

3 X AAA NEW

PH9272 NEW

2 X AAA PCB Mount

PH9264

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x AAA	PH9260	$1.40	$1.25	$1.10
1 x AAA PCB Mount	PH9261	$1.60	$1.40	$1.25
2 x AAA Cell	PH9226	$1.65	$1.45	$1.30
2 x AAA PCB Mount	PH9264	$1.75	$1.55	$1.35
3 x AAA NEW	PH9272	$2.20	$1.95	$1.75

2 X AAA Switched Battery Enclosure

PH9288

4 X AAA Side By Side

PH9268

4 X AAA PCB Mount

PH9270

4 X AAA Switched Battery Enclosure

PH9285

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
2 x AAA Switched Battery Enclosure	PH9288	$3.30	$2.90	$2.60
4 x AAA Side by Side	PH9268	$2.80	$2.50	$2.20
4 x AAA PCB Mount	PH9270	$2.80	$2.50	$2.20
4 x AAA Switched Battery Enclosure	PH9285	$4.20	$3.70	$3.30

AA Size

1 X AA
PH9203

2 X AA SIDE BY SIDE
PH9202

2 X AA SWITCHED BATTERY ENCLOSURE
PH9280

3 X AA NEW
PH9274

4 X AA SQUARE
PH9200

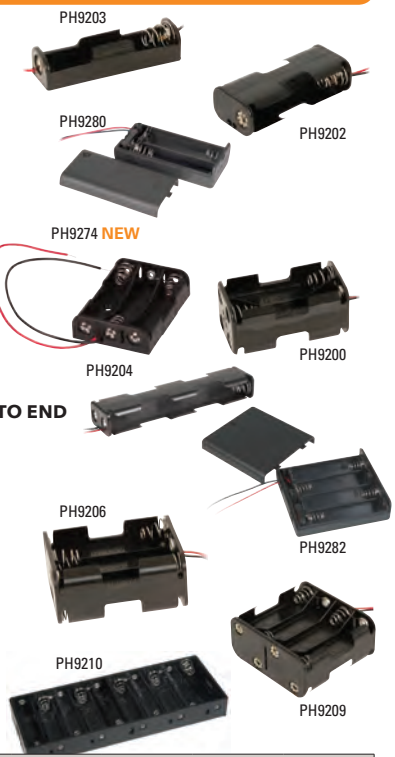
4 X AA SIDE BY SIDE & END TO END
PH9204

4 X AA SWITCHED BATTERY ENCLOSURE
PH9282

6 X AA 2 BY 3 SIDE BY SIDE
PH9206

8 X AA 2 ROWS OF 4 SQUARE
PH9209

10 X AA SIDE BY SIDE
PH9210



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x AA	PH9203	$1.40	$1.20	$1.05
2 x AA Side by Side	PH9202	$1.50	$1.35	$1.20
2 x AA Switched Battery Enclosure	PH9280	$4.10	$3.60	$3.20
3 x AA NEW	PH9274	$2.20	$1.95	$1.75
4 x AA Square	PH9200	$2.40	$2.15	$1.90
4 x AA Side by Side & End to End	PH9204	$1.85	$1.65	$1.45
4 x AA Switched Battery Enclosure	PH9282	$4.60	$4.10	$3.60
6 x AA 2 by 3 Side by Side	PH9206	$2.80	$2.50	$2.20
8 x AA 2 Rows of 4 Square	PH9209	$3.30	$2.90	$2.60
10 x AA Side by Side	PH9210	$5.80	$5.20	$4.60

C Size

1 X C CELL
PH9212

4 X C CELL 2 ROWS OF 2 END TO END
PH9216

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x C Cell	PH9212	$2.50	$2.20	$2.00
4 x C Cell 2 Rows of 2 End to End	PH9216	$3.60	$3.20	$2.90

D Size

1 X D CELL

PH9218

2 X D CELL SIDE BY SIDE

PH9220

4 X D CELL 2 ROWS OF 2

PH9222

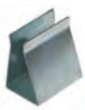
Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x D Cell	PH9218	$2.00	$1.80	$1.60
2 x D Cell Side by Side	PH9220	$2.80	$2.50	$2.20
4 x D Cell 2 Rows of 2	PH9222	$3.30	$2.95	$2.60

9V Size

PCB MOUNT 9V

PH9235

9V HOLDER



PH9237

STANDARD 9V SNAP-ON

PH9230

QUALITY 9V BATTERY CLIP

PH9232

BEST QUALITY "SAFETY" 9V BATTERY CLIP

PH9233

BEST QUALITY "T" SAFETY 9V BATTERY CLIP

PH9234

Type	Cat.	Qty 1+	Qty 10+	Qty 25+
PCB Mount 9V	PH9235	$1.60	$1.40	$1.25
9V Holder	PH9237	$1.20	$1.05	$0.90
Standard 9V Snap-On	PH9230	$0.90	$0.81	$0.72
Quality 9V Battery Clip	PH9232	$1.20	$1.05	$0.90
Best Quality "Safety" 9V Clip	PH9233	$1.60	$1.40	$1.25
Best Quality "T" Safety 9V Clip	PH9234	$1.60	$1.40	$1.25

9V BATTERY SNAP DC LEAD 2.1MM PLUG 0.3M

This is a 9V Battery snap to centre positive 2.1mm DC connector lead. Use this cable to battery power any device that needs 9V and has an on-board barrel jack. Works great for Arduinos, development boards, electronic projects, LED lighting and more!

SPECIFICATIONS	PH9251
Cable Length	0.3m
Battery Type	9V
Plug Type	5.5X2.1mm DC

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PH9251	$5.60	$5.00	$4.40

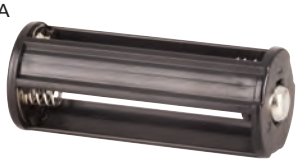
For next day delivery, or Click and Collect, see page 5

Battery Containers & Holders CONTINUED

3 X AAA BATTERY HOLDER FOR LED LIGHTS

Round battery holder that holds 3 x AAA batteries. Suits LED torches and bike lights, including ST3465, ST3456 and ST3475. Have a few handy, loaded with batteries (available separately), if you're going long distance.

- Dimensions: 53.5(L) x 22.3(Dia)mm (without batteries)



	Cat.	Qty 1+	Qty 10+	Qty 25+
	PH9221	$1.90	$1.70	$1.50

18650 BATTERY HOLDERS WITH 150MM LEAD

Ideal for Arduino® projects or any on-board power storage applications. Includes 150mm leads so it is suitable for case mounting too.

PH9205 SINGLE:

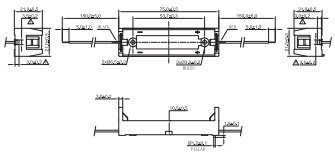
- Dimensions: 75(W) x 22(D) x 20(H)mm

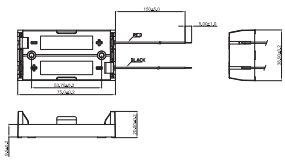
PH9207 DOUBLE

- Dimensions: 75(W) x 39(D) x 20(H)mm

PH9205

PH9207





	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x 18650	PH9205	$3.60	$3.20	$2.80
2 x 18650	PH9207	$5.90	$5.30	$4.70

4 X AA SWITCHED BATTERY ENCLOSURE WITH 2.1MM DC PLUG

- High quality ABS holder with on/off switch and sliding cover
- Includes 150mm lead 2.1mm DC Plug (centre positive)
- Dimensions: 68(L) x 65(W) x 19(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	PH9283	$6.90	$6.20	$5.50

BATTERY BANK 4 X AA WITH USB SOCKET & SWITCH

Provides 5VDC power though the USB socket by using 4 x AA batteries. The unit makes a superb back-up charger for any USB powered device such as an MP3 player or PDA and also features a slide on/off switch.

- Dimensions: 15(H) x 63(W) x 80(D)mm

Batteries not included.

Note: Output is not regulated.

	Cat.	Qty 1+	Qty 10+	Qty 25+
	MP3083	$5.60	$5.00	$4.40

4 X AA WATERPROOF BATTERY ENCLOSURE

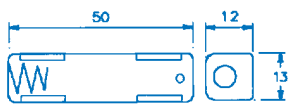
Simply add your own AA batteries and you have a 6V power source to power your gadgets when mains power is not available. It is water and dustproof, so it can be used outdoors, which could include powering outdoor weather sensors, tank level meters, door entry buzzers, decorative LED lighting, etc.

- High impact resistant ABS enclosure with a nylon cable gland
- Rated IP68 to provide protection against oil, dust and water
- Enclosure is secured by brass nuts moulded in the interior of the base with 4 x supplied self tapping screws
- Includes 150mm long tinned leads
- Dimensions: 79(L) x 67(W) x 23(H)mm

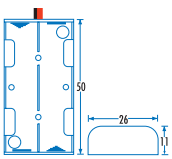
	Cat.	Qty 1+	Qty 10+	Qty 25+
	PH9281	$11.90	$10.70	$9.50

Battery Containers & Holders Line Drawings

AAA SIZE



PH9260 & PH9261



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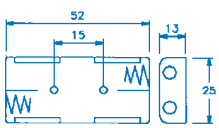

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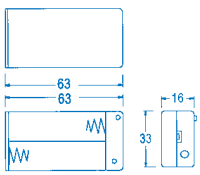

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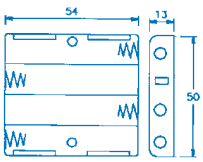
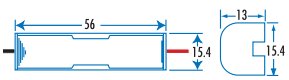


PH9268 & PH9270

AA SIZE



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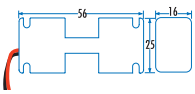

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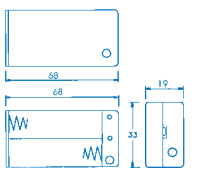

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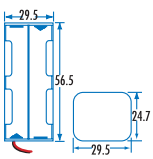

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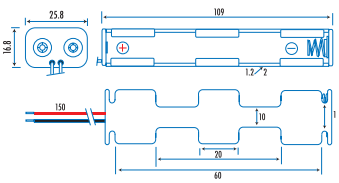

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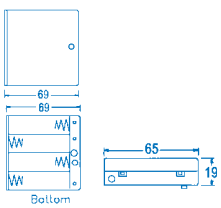

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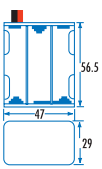

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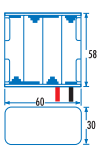

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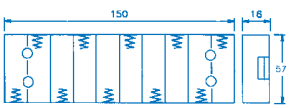
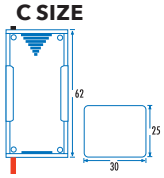


PH9210

C SIZE



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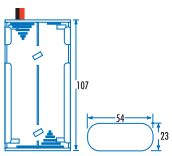
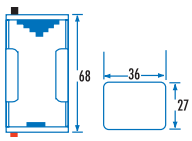


PH9216

D SIZE



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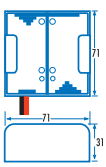

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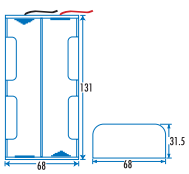
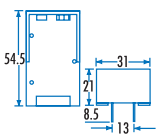


PH9222

9V SIZE



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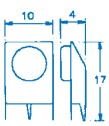

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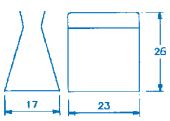


PH9237

Button Cell Batteries

1.5V SILVER OXIDE BATTERIES

These batteries generally have a protective layer of silicon on them. Please wipe with a cloth and avoid touching with fingers before installing them.

Type#	Capacity	Eveready	Vinnic	Maxell	Iec	Other	Pk	Dia X H(Mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
357	155mAh	357	S1154E	SR44W	SR44	613/RW12/32/S1154S	ea	11.6 x 5.4	SB2512	$2.50	$2.10	$1.90
362	21mAh	362	S721E	S721SW	SR58	SG11/SR720/532/19/RW310	ea	7.9 x 2.1	SB2530	$2.50	$2.10	$1.90
364	20mAh	364	S621E	S621SW	SR60	SG1/SR620/531/31/RW320	ea	6.8 x 2.1	SB2501	$2.50	$2.10	$1.90
371	44mAh	-	-	SR920SW	SR69	SG6/537/30/RW315	ea	9.5 x 2.1	SB2534	$2.50	$2.10	$1.90
377	27mAh	-	-	SR626SW	SR66	SG4/37	ea	6.8 x 2.6	SB2504	$2.50	$2.10	$1.90
389	60mAh	-	-	SR1130SW	SR54	RW49/AG10/G10/SG10/554/390	ea	11.6 x 3.05	SB2508	$2.50	$2.10	$1.90
391	40mAh	-	-	SR1121W	SR55	SG8/68/553/28/RW40	ea	11.6 x 2.1	SB2542	$2.50	$2.10	$1.90
392	38mAh	-	-	SR41W	SR41	SG3/63/547/2/RW27/RW47	ea	7.9 x 3.6	SB2502	$2.50	$2.10	$1.90
393	65mAh	-	-	SR754W	SR48	SG5/65/546/15/RW28/RW48	ea	7.9 x 5.4	SB2532	$2.50	$2.10	$1.90
396	25mAh	-	-	SR726W	SR59	SG2/556/29/RW411	ea	7.9 x 2.6	SB2510	$2.50	$2.10	$1.90
399	42mAh	-	-	SR927W	SR57	SG7/SR926/543/35/RW413	ea	9.5 x 2.7	SB2536	$2.50	$2.10	$1.90

1.5V ALKALINE BATTERIES

Type#	#Capacity	Eveready	Vinnic	Maxell	Varta	Other	Pk	Dia X H(Mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
LR936	45mAh		-	LR45		AG9	ea	9.5 x 3.6	SB2513	$1.90	$1.60	$1.50
LR43	90mAh	166	-	LR43	V12GA	-	ea	11.6 x 4.2	SB2514	$1.90	$1.60	$1.50
LR44	120mAh	A76	-	LR44	V13GA	357A	ea	11.6 x 5.4	SB2516	$1.90	$1.60	$1.50
LR44 (Pana-sonic)	120mAh	LR44	-	LR44	V13GA	357A	ea	11 x 5	SB2950	$4.80	$4.30	$3.80

3V LITHIUM BATTERIES

- Not rechargeable.

Type#	Capacity	Pk.	Dia x h(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
CR1220	30mAh	ea	12 x 2.0	SB2527	$3.90	$3.30	$2.90
CR1616	45mAh	ea	16 x 1.5	SB2525	$3.90	$3.30	$2.90
CR1620	50mAh	ea	16 x 2.0	SB2526	$3.90	$3.30	$2.90
CR1632	150mAh	ea	16 x 3.2	SB2529	$3.90	$3.30	$2.90
CR2016	60mAh	ea	20 x 1.6	SB2524	$3.90	$3.30	$2.90
CR2025	110mAh	ea	20 x 2.5	SB2520	$3.90	$3.30	$2.90
CR2032	140mAh	ea	20 x 3.2	SB2522	$3.90	$3.30	$2.90
CR2450	575mAh	ea	25.5 x 5.0	SB2946	$5.90	$5.30	$4.70
CR2430	270mAh	ea	24.5 x 3.0	SB2523	$3.90	$3.30	$2.90

STANDARD BUTTON CELL HOLDER

PCB mount holder, suits button cells, with diameter up to 20mm, which includes the 3V lithium batteries.

**May vary slighty to one shown.*

	Cat.	Qty 1+	Qty 10+	Qty 25+
	PH9238	$2.20	$1.95	$1.75

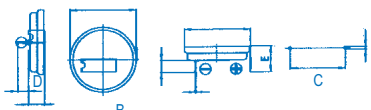
3V PCB MOUNTING LITHIUM COIN BATTERIES

Two of the most popular solder-in PCB mounting type batteries. All 3 volt.

NOT RECHARGEABLE

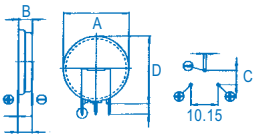
SB1760

DIAGRAM 1



SB1762

DIAGRAM 2



DIMENSIONS (MM)

CAPACITY	PART NO.	DIAG.	CAT.	A	B	C	D
200mAh	CR2032VC	2	SB1762	20	3.2	3.5	21
400mAh	CR2430-HC-33	1	SB1760	24.5	24.7	17.8	9.45
540mAh	CR2540NRH	2	SB1622	24.5	24.5	17.8	11.35

Part no.	Capacity	Cat.	Qty 1+	Qty 10+	Qty 20+
CR2430-HC-33	400mAh	SB1760	$4.90	$4.10	$3.70
CR2032VC	200mAh	SB1762	$2.90	$2.60	$2.30
CR2540NRH	540mAh	SB1622	$7.90	$7.10	$6.30

3V LITHIUM BATTERIES - PANASONIC

NOT RECHARGEABLE

Panasonic

Type#	Capacity	Pk.	Dia x h(mm	Cat.	Qty 1+	Qty 10+	Qty 20+
CR2016	90mAh	ea	20 x 1.6	SB2940	$6.90	$5.90	$5.50
CR2025	165mAh	ea	20 x 2.5	SB2942	$6.90	$5.90	$5.50
CR2032	220mAh	ea	20 x 3.2	SB2944	$6.90	$5.90	$5.50

HEARING AID REPLACEMENT BATTERY PACKS

Eclipse Hearing Aid batteries have a higher capacity than other batteries of same size offering maximum power while increasing life. High drain hearing Aids tend to demand greater air flow. The air management system provides constant air flow throughout the Battery life. This allows battery to access accurate amount of air required, maximizing battery power without loss in performance. As a result, one has a high performance consistent hearing aid.

Supplied in a handy rotary wheel dispenser pack.

Tip: Caring for these batteries is important. When they are not in use, hearing aid batteries should be stored at room temperature. When you're not using your hearing aid, example, at night when sleeping, leave the battery compartment open so the battery doesn't drain and fresh air can dry the hearing aid and battery compartment.

	Cat.	Qty 1+	Qty 8+	Qty 15+
Hearing Aid A13 300mAh 6 pack	SB2544	$7.90	$7.10	$6.30
Hearing Aid A312 180mAh 6 pack	SB2543	$7.90	$7.10	$6.30
A675 630mAh 6 pack	SB2545	$7.90	$7.10	$6.30
A10 100mAh 6 pack	SB2547	$7.90	$7.10	$6.30

For next day delivery, or Click and Collect, see page 5

Alkaline Batteries

ECLIPSE ALKALINE BATTERIES

Eclipse batteries are made to the same specifications of those well known expensive brands advertised on TV, but at a realistic price. We are very, very proud of these products and stand behind them unconditionally. If you try them & are disappointed with them for any reason we will give you a full refund and another set of ECLIPSE batteries to see if you can work out what went wrong!

SB2387 SB2426 SB2424 SB2416 SB2418 SB2423

Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
2	AAAA	SB2387	$2.20	$1.95	$1.75
2	AAA	SB2426	$2.00	$1.80	$1.60
4	AAA	SB2413	$3.30	$2.95	$2.60
12	AAA	SB2334	$7.90	$7.10	$6.30
24	AAA	SB2331	$11.90	$10.90	$9.90
40	AAA	SB2328	$16.90	$14.90	$13.90
2	AA	SB2424	$2.00	$1.80	$1.60
4	AA	SB2425	$3.30	$2.95	$2.60
12	AA	SB2333	$7.90	$7.10	$6.30
24	AA	SB2329	$11.90	$10.90	$9.90
40	AA	SB2332	$16.90	$14.90	$13.90
2	C	SB2416	$4.90	$4.30	$3.90
4	C	SB2320	$8.90	$7.70	$6.70
2	D	SB2418	$5.10	$4.55	$4.05
4	D	SB2321	$8.90	$8.00	$7.10
1	9V	SB2423	$4.90	$4.30	$3.90
6	9V	SB2417	$16.90	$14.90	$13.90

PANASONIC® ALKALINE BATTERIES

Panasonic® is not a name that you instantly associate with high performance batteries, but we have come to learn that in fact Panasonic® has been manufacturing batteries for many many years, providing OEM manufacturing and strong research and development for many of the big brands you know and recognise. But now have they have decided to keep their latest technology for themselves, and manufacture under their own brand. These Panasonic® Evolta® batteries held an internationally recognised record for the longest lasting AA alkaline battery – until recently. If you don't believe us, test them for yourself, we are sure you will be impressed! Having said that, the prices are quite competitive, considering the outstanding performance of the Evolta® product. We are confident that with a name like Panasonic® you can be confident about quality! So if using brand-name batteries is important to you we would love you to try the Panasonic® Evolta® alkaline range.

SB2910 SB2900 SB2912 SB2914 SB2916

TYpe	Pack	Cat.	Qty 1+
AAA	2	SB2906	$4.50
AAA	4	SB2908	$7.90
AAA	8	SB2910	$13.90
AAA	20 NEW	SB2919	$28.90
AA	2	SB2900	$4.50
AA	4	SB2902	$7.90
AA	8	SB2904	$12.90
AA	20	SB2905	$28.90
C	2	SB2912	$7.90
D	2	SB2914	$9.90
9V	ea	SB2916	$8.90

Alkaline Batteries - Speciality Type

6, 9, 12V ALKALINE BATTERIES

• Blister packed

(A) 12V CAR ALARM REMOTE CONTROL BATTERY - A23 TYPE/L1028/SLR23/GP23A (HOUSE BRAND)

As used in remote controls for most car alarms. Size 9.5mm dia x 27mm high. See photo "A".

A B C D E

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
A23	SB2420	$2.50	$2.00	$1.80

(B) 12V THIN CAR ALARM REMOTE CONTROL BATTERY - L828 TYPE

As used in new generation small sized car alarm remote controls. Size 8mm dia x 28mm high. See photo "B".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L828	SB2422	$3.90	$3.40	$2.90

(C) 6V ALKALINE BATTERY - L1325/4LR44 TYPE

These are the same size as A544 batteries. Used mainly in cameras. Size 13mm dia x 25mm. See photo "C".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L1325/4LR44	SB2415	$3.90	$3.40	$3.00

(D) 6V ALKALINE BATTERY

No L1016/11A. Dimensions: 9.5mm dia x 15mm high. See photo "D".

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L1016/11A	SB2421	$3.90	$3.10	$2.70

12V PANASONIC® ALKALINE

Car alarm battery.

• LRV08, A23, L1028.

Type	Cat.	Qty 1+	Qty 10+	Qty 20+
A23	SB2970	$4.80	$4.30	$3.80

N SIZE EXTRA HEAVY DUTY ZINC CHLORIDE - VINNIC

These batteries are superior to standard carbon-zinc cells but are much cheaper and have a longer shelf life.

• Blister Packed

Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 20+
N	2	SB2346	$4.50	$3.60	$3.30

ECLIPSE LANTERN BATTERY

A 6 volt heavy duty battery as used in many torches including the very popular Dolphin.

• Carbon zinc battery

	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB2394	$6.90	$5.70	$5.10

Zinc Carbon Batteries 24 Packs

Ideal for low to medium drain devices such as clocks, TV remote controls, etc. where alkaline is not required. They are fantastic value for money, and do not contain lead, mercury or cadmium.

NEW

OUR LOWEST COST AA BATTERIES EVER!

SPECIFICATIONS	SB2550	SB2552
Size	AAA	AA
Voltage	1.5V	
Shelf Life	3yrs	
Weight	8.85g each	17.5g each
Dimensions	44(L) x 10.2(Dia.)mm	50.25(L) x 13.9(Dia.)mm

Size	Pack	Cat.	Qty 1+	Qty 10+	Qty 20+
AAA	24	SB2550	$5.60	$5.00	$4.45
AA	24	SB2552	$5.60	$5.00	$4.45

Lithium Batteries

ECLIPSE PLUS LITHIUM AAA 1.5V BATTERY PACKS

This range of Lithium Iron Disulfide (LiFeS2) batteries pack 5-6 times the capacity of their alkaline equivalents in high power applications. Using these represents a 40-60% cost saving over alkaline batteries. Refer to our website for discharge performance specifications with comparison to leading brand name Lithium batteries.

NOT RECHARGEABLE.

SPECIFICATIONS	BOTH MODELS
Capacity	>1200mAh
Max Constant Load	1500mA
Max Pulse Load	2000mA
Terminal Voltage	1.5V

	Pkt	Cat.	Qty 1+	Qty 10+	Qty 20+
AAA	2	SB2351	$11.90	$10.90	$9.90
AAA	4	SB2352	$18.90	$16.90	$14.90

ECLIPSE PLUS LITHIUM AA 1.5V BATTERY PACKS

This range of Lithium Iron Disulfide (LiFeS2) batteries pack 5-6 times the capacity of their alkaline equivalents in high power applications. Using these represents a 40-60% cost saving over alkaline batteries. Refer to our website for discharge performance specifications with comparison to leading brand name Lithium batteries.

NOT RECHARGEABLE.

SPECIFICATIONS	BOTH MODELS
Capacity	>3000mAh
Max Constant Load	2000mA
Max Pulse Load	3000mA
Terminal Voltage	1.5V

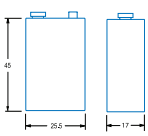
	Pkt	Cat.	Qty 1+	Qty 10+	Qty 20+
AA	2	SB2355	$13.90	$12.90	$10.90
AA	4	SB2357	$19.90	$17.90	$15.90

ECLIPSE LITHIUM 9V BATTERY 1200MAH

As you know, lithium batteries are essential for such things as smoke detectors, wireless alarm systems, garage door opener remotes etc. They are a bit more expensive, but your family's lives are worth a couple of bucks.
Available in single or twin pack:

NOT RECHARGEABLE.

Please note that the physical size of these batteries is slightly different to standard 9V batteries.



	Pkt	Cat.	Qty 1+	Qty 8+	Qty 15+
9V	Single	SB2397	$15.90	$13.90	$12.90
9V	2	SB2396	$28.90	$25.90	$22.90

ENERGIZER 1.5V LITHIUM LONG LASTING BATTERIES

The perfect power source for high drain current draw devices such as; cameras, camcorders, personal stereos, mobile phones, palm top computers and TVs.

- Up to 3 times the life of any alkaline battery.
- Up to 10 times the life of ordinary carbon zinc battery
- Guaranteed shelf life up to 10 years.
- 1.5V, 1.4Amp hour (AA).
- Blister Packed

NOT RECHARGEABLE.

Made in Singapore.

	pkt	Cat.	Qty 1+
AAA	2	SB2372	$15.90
AA	2	SB2375	$15.90

PANASONIC® LITHIUM CAMERA BATTERIES

NOT RECHARGEABLE.

CAT.	TYPE	VOLT	CURRENT
SB2980	CR123A	3V	1500mA
SB2982	CR2	3V	800mA

Panasonic

		Cat.	Qty 1+	Qty 10+	Qty 20+
CR123A	Each	SB2980	$12.90	$11.30	$9.90
CR2	Each	SB2982	$14.90	$13.40	$11.90

CR123A 3V LITHIUM BATTERIES 6 PACK

Contains 6 CR123A lithium camera batteries, commonly used in LED torches and cameras.

- 3V 1600mAh
- Suitable for Uniden App Cam Solo wireless cameras (requires 4 x CR123A batteries per camera)

NOT RECHARGEABLE.

	Pkt	Cat.	Qty 1+	Qty 8+	Qty 15+
CR-123A	Pack of 6	SB2324	$24.90	$22.50	$19.70

tech talk — Lithium Can Be Dangerous

All the batteries on this page are non-rechargeable. Do not try to recharge any of these lithium batteries. There are basically two types of lithium batteries: rechargeable & non-rechargeable. Rechargeable batteries are usually referred to as Lithium-Ion, Lithium Polymer or LiFePO4. The ONLY WAY to recharge such batteries is with a dedicated charger for the particular battery size, such as CRV-3 or CR123A types. Such chargers are specifically designed to strictly manage the special charge rate requirements for rechargeable lithium ion or lithium polymer cells. Standard Lithium non-rechargeable batteries are not designed to be recharged - even with a Lithium-Ion or Lithium-Polymer charger. Indeed there is a VERY HIGH likelihood that the battery will violently EXPLODE if any attempt is made to charge a standard Lithium battery. DO NOT try to recharge ANY lithium battery with an undedicated charger, such as lead acid or Ni-Cd charger, under any circumstances. All batteries on this page are non-rechargeable. Do not try to recharge any of these lithium batteries.

LITHIUM CAMERA BATTERIES

Blister Packed **NOT RECHARGEABLE.**

CAT.	TYPE	VOLT	CURRENT
SB2400	CR123A	3V	1300mA
SB2401	CR-P2	6V	1300mA
SB2402	2CR5	6V	1300mA
SB2404	CR2	3V	750mA

SB2404 SB2401 SB2402 SB2400

		Cat.	Qty 1+	Qty 8+	Qty 15+
CR123A	Each	SB2400	$5.90	$5.20	$4.70
CR-P2	Each	SB2401	$14.90	$13.40	$11.90
2CR5	Each	SB2402	$11.90	$10.70	$9.50
CR2	Each	SB2404	$7.30	$6.50	$5.80

Computer Backup

3.6V LITHIUM COMPUTER BACKUPS

These high capacity batteries are used in many desktop and notebook computers to retain date, time and configuration information while the computer is switched off. They are also useful where long shelf life is important or when the battery is to be fitted into difficult or sealed access areas. Storage life is up to 10 years.

- 14.5mm diameter

NOT RECHARGEABLE

SB1770 SB1774 SB1771 SB1775

CAT.	SIZE	CAPACITY (MAH)	MAX CURRENT (MA)	HEIGHT CONNECT (MM)
SB1770	Half AA	1200	50	25mm Nipple
SB1771	Half AA	1200	50	25mm Axial Lead
SB1774	AA	2400	100	50mm Nipple
SB1775	AA	2400	100	50mm Axial Lead

		Cat.	Qty 1+	Qty 10+	Qty 20+
Half AA	Each	SB1770	$15.90	$14.30	$12.70
Half AA	Each	SB1771	$16.90	$14.90	$13.30
AA	Each	SB1774	$21.90	$19.70	$17.30
AA	Each	SB1775	$22.90	$20.30	$17.90

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

For next day delivery, or Click and Collect, see page 5

Sealed Lead Acid Batteries

Sealed lead acid batteries are used generally for two purposes. Standby applications such as emergency power for safety lights or security systems, computer peripheral terminals etc. and cyclic applications as portable power for MP3 players, DVRs, toys, lights & use with solar panels for remote power.

- Leak proof construction
- Long service life
- Usable/rechargeable in any position
- Deep discharge recovery
- Wide operating temperature range
- High discharge rate capability
- Designed not to discharge hydrogen into the atmosphere

Charging voltage for 12 volt is 14.7 volts and for 6 volt is 6.8 to 7.4 volts. The charging time must be doubled if the charge current is halved.

6 Volt SLA Batteries

1 YEAR WARRANTY

6V 1.3AH

SB2495

6V 4.5AH

SB2496

6V 5AH

SB2498

6V 12AH

SB2497

	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
1.3Ah	97(L) x 51(D) x 21(H)mm	SB2495	$16.90	$14.90	$13.30
4.5Ah	70(L) x 47(D) x 106(H)mm	SB2496	$18.90	$16.70	$14.70
5Ah	67(L) x 67(D) x 97(H)mm	SB2498	$24.90	$22.40	$19.90
12Ah	151(L) x 51(D) x 100(H)mm	SB2497	$39.90	$35.90	$31.90

SLA BATTERY CARRY BAG

Designed for carrying a large sealed lead-acid battery. Suits sealed lead-acid batteries 12V 7.2Ah (SB2486) or 6V 12AH (SB2497) - (and Panasonic® equivalents) approx. max. size 151 x 65 x 101mm. Features fused cigarette-lighter socket (10A), zip-up cover, and internal fold-away protective flap.

- Battery can be medium/slow charged INSIDE THE BAG!

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB6360	$24.90	$22.40	$19.90

12 Volt SLA Batteries

1 YEAR WARRANTY

12V 1.3AH

SB2480

12V 2.2AH

SB2482

12V 4.5AH

SB2484

12V 6.5AH

SB2485

12V 7.2AH

SB2486

12V 9AH

SB2487

12V 12AH

SB2489

12V 18AH

SB2490

	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
1.3Ah	97(L) x 43(D) x 57(H)mm	SB2480	$24.90	$22.30	$19.70
2.2Ah	178(L) x 34(D) x 66(H)mm	SB2482	$29.90	$26.90	$23.90
4.5Ah	90(L) x 70(D) x 106(H)mm	SB2484	$35.90	$32.30	$28.70
6.5Ah	150(L) x 65(D) x 93(H)mm	SB2485	$36.90	$33.20	$29.50

	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
7.2Ah	151(L) x 65(D) x 93(H)mm	SB2486	$42.90	$38.60	$34.30
9Ah	150(L) x 65(D) x 93(H)mm	SB2487	$54.90	$49.40	$43.90
12Ah	150(L) x 100(D) x 93(H)mm	SB2489	$69.90	$62.90	$55.90
18Ah	181(L) x 77(D) x 167(H)mm	SB2490	$99.90	$89.90	$79.90

pick me Sealed Lead Acid Batteries

	Capacity	20hr Rate	10hr rate	5 hr rate	1 hr rate	Initial charge current	Cycle Voltage	Standby Voltage	Page
SB2495	6V 1.3Ah	65mA (1.3Ah)	117mA (1.17Ah)	208mA (1.04Ah)	780mA (0.78Ah)	<0.39A	7.20-7.50V	6.75-6.90V	374
SB2496	6V 4.5Ah	210mA (4.2Ah)	378mA (3.7Ah)	672mA (3.36Ah)	2.25A (2.25Ah)	<1.2A	7.20-7.50V	6.75-6.90V	374
SB2498	6V 5Ah	250mA (5.0Ah)	450mA (4.5Ah)	800mA (4Ah)	3.0A (3.0Ah)	<1.5A1	7.20-7.50V	6.75-6.90V	374
SB2497	6V 12Ah	600mA (12Ah)	1.08A (10.8Ah)	1.92A (9.6Ah)	7.2A (7.2Ah)	<3.6A	7.20-7.50V	6.75-6.90V	374
SB2480	12V 1.3Ah	65mA (1.30Ah)	117mA (1.17Ah)	208mA (1.04Ah)	780mA (0.78Ah)	<0.39A	14.4-15.0V	13.5-13.8V	374
SB2482	12V 2.2Ah	110mA (2.2Ah)	198mA (1.98Ah)	352mA (1.76Ah)	1.32A (1.32Ah)	<0.66A	14.4-15.0V	13.5-13.8V	374
SB2484	12V 4.5Ah	200mA (4.5Ah)	380mA (3.8Ah)	680mA (3.4Ah)	2.40A (2.4Ah)	<1.2A	14.4-15.0V	13.5-13.8V	374
SB2485	12V 6.5Ah	325mA(6.5Ah)	486mA (4.86Ah)	864mA (4.32Ah)	3.24A (3.24Ah)	<1.62A	14.4-15.0V	13.5-13.9V	374
SB2486	12V 7.2Ah	360mA (7.2Ah)	650mA (6.5Ah)	1.15A (5.75Ah)	4.32A (4.32Ah)	<2.1A	14.4-15.0V	13.5-13.8V	374
SB2487	12V 9Ah	450mA (9Ah)	810mA (8.1Ah)	1.44A (7.2Ah)	5.4A (5.4Ah)	<2.7A	14.4-15.0V	13.5-13.9V	374
SB2489	12V 12Ah	600mA (12Ah)	1.08A (10.8Ah)	1.92A (9.6Ah)	7.2A (7.2Ah)	<3.6A	14.4-15.0V	13.5-13.9V	374
SB2490	12V 18Ah	900mA (18Ah)	1.72A (17.2Ah)	3.05A (15.2Ah)	10.8A (10.8Ah)	<3.4A	14.4-15.0V	13.5-13.9V	374
SB1698	12V 26Ah	1.3A (26Ah)	2.11A (21.1Ah)	3.74A (18.7Ah)	14A (14Ah)	<7.8A	14.4-15.0V	13.5-13.9V	375
SB1699	12V 38Ah	1.94A (38.8Ah)	3.8A (38Ah)	6.16A (30.8Ah)	22.3A (22.3Ah)	<12A	14.4-15.0V	13.5-13.9V	375
SB1695	12V 100Ah	5.1A (102Ah)	10A (100Ah)	16.2A (81Ah)	58.5A (58.5Ah)	<30A	14.4-15V	13.5-13.8V	375

Note: Current is limited by spring terminal type.

Deep-Cycle Batteries

12V DEEP CYCLE AGM BATTERIES

This product has an absorbent glass mat (AGM) embedded in the structure of the plates. (There are 6 sets of plates, each 2.0V which makes up a "battery" of plates, i.e. 12V). The mat does two things. It reinforces the lead frame of each plate, or cell, and it stops the plates from buckling under heavy discharge current. By helping make the innards of the battery virtually solid, you can mount it in any position, but it is still preferable, of course, to mount the battery upright, even for the sake of convenience of terminal access. They are an excellent product.

Note: It is important to not discharge an AGM more than 60% between recharge.

Note: 150Ah and 200Ah not stocked in all stores but can be ordered.

1 YEAR WARRANTY

12V 75AH
SB1680
260(W) x 168(D) x 211(H)mm

12V 100AH
SB1682
330(W) x 172(D) x 217(H)mm

12V 120AH
SB1683
450(W) x 172(D) x 217(H)mm

12V 150AH
SB1684
485(W) x 170(D) x 240(H)mm

12V 200AH
SB1686
523(W) x 239(D) x 217(H)mm

	Capacity At 0°C	Self Discharge At 3 Months	Max DischArge (5 Sec.)	Weight	Cat.	Qty 1+	Qty 2+	Qty 4+
75Ah	10 hour rate 75Ah	86%	1,125A	20.5kg	SB1680	$319.00	$299.00	$279.00
100Ah	10 hour rate 100Ah	91%	1,500A	28.4kg	SB1682	$379.00	$359.00	$339.00
120Ah	10 hour rate 120Ah	91%	1,800A	37.8kg	SB1683	$459.00	$429.00	$409.00
150Ah	10 hour rate 150Ah	91%	2,250A	40.2kg	SB1684	$569.00	$539.00	$509.00
200Ah	10 hour rate 200Ah	91%	3,000A	59.2kg	SB1686	$739.00	$699.00	$659.00

12V DEEP CYCLE GEL CELL SLA BATTERIES

These genuine deep-cycle batteries add to our already substantial range of batteries. As with all gel cells, they can be operated and charged in any position, are leakproof and completely sealed.

Gel batteries are ideal for solar power, camping, 4WD, auxiliary applications and anywhere deep discharge and recovery is required.

Check with our call centre for freight rates if you are a long way from our warehouse. (SYDNEY)

1 YEAR WARRANTY

12V 26AH
SB1698
165(W) x 172(D) x 110(H)mm

12V 38AH
SB1699
197(W) x 165(D) x 170(H)mm

12V 100AH
SB1695
330(W) x 173(D) x 223(H)mm

	Nominal Capacity	Self Discharge At 3 Months	Max DischArge (5 Sec.)	Weight	Cat.	Qty 1+	Qty 4+	Qty 10+
26Ah	10 hour rate 26Ah	91%	260A	8.35kg	SB1698	$149.00	$133.90	$118.90
38Ah	10 hour rate 38.8Ah	91%	380A	13kg	SB1699	$229.00	$199.00	$179.00
100Ah	10 hour rate 100Ah	91%	1,000A	31.5kg	SB1695	$429.00	$399.00	$379.00

12V 150AH SLEEK AGM DEEP CYCLE BATTERY

This high performance deep cycle AGM battery offers an excellent power storage solution to those with minimal space. A high energy density and top grade materials allow such a high capacity of 150Ah to be packed into such a small footprint - just 123 x 556mm, suitable to fit into a standard 23" rack. Front terminal access makes battery connections neat and simple, and the durable carry handles allow for easier handling and inspection. Designed to perform in harsh tropical conditions, and with a superior high rate discharge performance and higher cycle service life, this battery is perfect for a wide array of applications including remote solar systems, caravan and RV, motor home, and marine. With a float voltage of 13.5V, this AGM battery is perfectly suited to caravans to make the most of charging off the engine alternator. See our website for a full specification datasheet.

- Small footprint to suit installations in tight areas such as marine, caravans or motor homes
- Design Float life of 12+ years in accordance with Eurobat classification of long life battery
- Suitable for standard 23" rack
- Advanced AGM (absorbed glass matt) separator offering longer service life and superior high rate discharge performance
- Threaded post copper insert terminals offering high conductivity
- Fire retardant container and cover (UL40 - V0)
- Compliant to IEC 60896-21/22:2004 and UL approved

Note: Not stocked at stores but can be ordered.

1 YEAR WARRANTY

SPECIFICATIONS	SB1822
Float / Boost Voltage	13.5V / 13.8V
Capacity	150Ah (10hr rate), 165Ah (20hr rate)
Self-Discharge	< 1% per week
Shelf Life Without Re-Charge	Up to 6 months
Operating Temperature	-40°C to 60°C
Designs Float Life	12+ years at 27°C
Design Cycle Life	1800+ cycles @20%DOD, 900+ cycles @50%DOD, 500+ cycles @80%DOD
Dimensions	123(W) x 556(D) x 296(H)mm
Weight	52kg

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 150Ah	SB1822	$999.00	$899.00	$799.00

For next day delivery, or Click and Collect, see page 5

POWERTECH Lithium

NEW

Lithium deep cycle batteries

We are delighted to announce the arrival of Lithium Iron Phosphate (LiFePO4) Deep Cycle Batteries at a massive price breakthrough!

For those of you who are unaware, this technology is the answer to a dream. As good as Lead-Acid batteries are, they are no match for this technology.

- LiFePO4 batteries are nominally 12.8V making them exactly compatible with Lead-Acid.
- LiFePO4 batteries have UP TO 10 times the battery cycle life over Lead-Acid. This is the real secret to them. They are so much more RELIABLE than Lead-Acid. It means that you can install them in the bowels of a cruiser and forget about them. Or upgrade to battery power standby on your Solar Power installation.
- Total cost of lifetime ownership is, in fact, substantially reduced.
- LiFePO4 batteries will deliver TWICE as much current under load as a Lead-Acid equivalent. Importantly, they will also take a far higher charge current so you are back up to full capacity in no time!
- LiFePO4 batteries weight about ½ as much as equivalent Lead-Acid installations. This weight saving can improve boat or vehicle performance.
- LiFePO4 batteries do not produce dangerous (explosive) hydrogen gas.

Now that we have negotiated a massive deal with our factory, you should seriously consider making the upgrade to this technology today.

NOTES ON CHARGING

While the internal battery management system will take care of most charging, in order to maintain optimum operation and capacity, we recommend using a charger which is designed for LiFePO4 charging. These chargers are developed to work in the optimum method for recharging, providing longer service life.

If you're installing them as a house battery, then a DC-DC charger between your main battery system and the house batteries is also recommended, such as the MB3683 Dual Input Multi-Stage.

If you're charging from mains power, we recommend the following chargers (see page 385 for individual details)

- MB3611 4-Stage Multi-Voltage
- MB3613 9-Stage Multi-Voltage
- MB3621 Multi-Stage Charger

If you are installing them off grid we recommend upgrading your charge controller to MP3741.

12.8V LITHIUM DEEP CYCLE BATTERIES

The next generation of power storage is here! These LiFePO4 batteries weigh less than half of their Lead Acid counterparts. They may look fairly similar to lead acid batteries, but internally they're a totally different, next generation concept. They're actually made up of regular 18650 or 26650 LiFePO4 cells, which are in mass production for many portable devices. An internal battery management system (BMS) ensures all cells are uniformly charged and discharged, as well as providing short circuit, over current, and reverse polarity protection. This provides you with a higher degree of protection than a traditional lead acid battery which is unprotected, and can discharge rapidly under short circuit conditions, causing fire and damage. The internal BMS will also limit discharge and manage cut-off voltage, to further protect the internal cells.

Absolutely perfect for high capacity portable power, and replacement of similar capacity lead acid / AGM battery.

- Much lighter than Lead Acid and AGM Batteries
- Robust LiFePO4 Cells
- Excellent life span

3 YEAR LIMITED

SPECIFICATIONS	SB2201	SB2202	SB2203	SB2242	SB2244	SB2246
Capacity	7.5Ah	18Ah	100Ah	120Ah	150Ah	200Ah
Service Life	10 Years+					
Cycle Life	1500+ cycles (> 80% capacity retention)					
Nominal Voltage	12.8V					
Cut-Off Voltage	10V Approx.					
Charge Type	Constant Current / Constant Voltage					
Normal Current	7.5A	25A	50A	50A	50A	50A
Instant Current	15A (max 5 min)	50A (max 5 min)	100A (max 5 min)	100A (max 5 min)	100A (max 5 min)	150A (max 5 min)
Internal Cells	18650 LiFePO4	18650 LiFePO4	26650 LiFePO4	26650 LiFePO4	26650 LiFePO4	26650 LiFePO4
Maximum Internal Resistance	90MΩ	85MΩ	35MΩ	35MΩ	30MΩ	25MΩ
Output Terminals	Spade Terminals	M5 Bolt Down	M8 Bolt Down	M8 Bolt Down	M8 Bolt Down	M8 Bolt Down
Operating Temperature	0-45°C (60°C max discharging)					
Operating Humidity	RH < 85%					
Storage Temperature	0-40°C (15-25°C recommended)					
Storage Humidity	RH < 50%					
Weight	1.1kg	2.6kg	13.6kg	15.5kg	19.5kg	25.5kg
Dimensions	151(W) x 65(D) x 92(H)mm	181(W) x 77(D) x 168(H)mm	328(W) x 172(D) x 235(H)mm	483(W) x 170(D) x 235(H)mm	483(W) x 170(D) x 235(H)mm	521(W) x 218(D) x 238(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
7.5Ah	SB2201	$149.00	$133.90	$118.90
18Ah	SB2202	$289.00	$259.00	$229.00
100Ah	SB2203	$1,099.00		
120Ah	SB2242	$1,449.00		
150Ah	SB2244	$1,699.00		
200Ah	SB2246	$2,249.00		

6.4V 4.5AH LITHIUM DEEP CYCLE BATTERY

Made up of regular 18650 LiFePO4 cells, which are in mass production for many portable devices. An internal battery management system (BMS) ensures all cells are uniformly charged and discharged, as well as providing short circuit, over current, and reverse polarity protection. This provides you with a higher degree of protection than a traditional lead acid battery which is unprotected, and can discharge rapidly under short circuit conditions, causing fire and damage. The internal BMS will also limit discharge and manage cut-off voltage, to further protect the internal cells. This 4.5Ah model can provide continuous current up to 4.5A with peaks of 9A. Absolutely perfect for portable power, and replacement of similar capacity lead acid / AGM battery. Also often found in alarm systems, and other critical systems with backup batteries.

- Much lighter than Lead Acid and AGM Batteries
- Robust LiFePO4 Cells
- Excellent life span

3 YEAR LIMITED

SPECIFICATIONS	SB2200
Service Life	10 Years+
Cycle Life	1500+ cycles (> 80% capacity retention)
Cut-Off Voltage	5.0V approx.
Charge Type	Constant Current / Constant Voltage
Normal Current	4.5A (9A 5min max)
Internal Cells	18650 LiFePO4
Maximum Internal Resistance	55mΩ
Operating Temperature	0-45°C (60°C max discharging)
Operating Humidity	RH < 85%
Storage Temperature	0-40°C (15-25°C recommended)
Storage Humidity	RH < 50%

	Cat.	Qty 1+	Qty 5+	Qty 10+
6.4V 4.5Ah	SB2200	$56.90	$50.90	$44.90

MULTI-STAGE CHARGER FOR LITHIUM AND LEAD ACID BATTERIES 12V 30A

See page 385

	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 30A	MB3621	$399.00	$359.00	$319.00

20A MPPT SOLAR CHARGE CONTROLLER FOR LITHIUM OR SLA BATTERIES

See page 403

	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V 20A	MP3741	$229.00	$199.00	$179.00

Power Meters

HIGH PRECISION 200A DC WATT METER POWER ANALYSER WITH LCD DISPLAY

This exceptional trouble shooting device is not just a watt meter it is an all-in-one power meter, volt meter, amp-hour meter, ammeter and energy meter. It's designed for systems less than 60V and currents up to 200A (Peak). Slotting in between various links of a power system it can check charge going to a battery from battery charger or alternator, solar panel output, charge controller output, health and performance of batteries, evaluate charging efficiency or measure power and energy consumption of any load device with a battery. The Watt Meter only requires a tiny 7mA draw to operate making little difference to power production during usage. Ideal for cars, boats, caravans, off-grid installations, wind, solar installations, and so much more.

- 75A continuous / 200A Max
- Up to 60VDC compatibility
- Accurate amps, volts, watts, amp-hours, watt-hours, peak amps, minimum volts (sag), peak watts

1 YEAR WARRANTY

SPECIFICATIONS	BOTH
Reads	4.8V - 60V (0V - 60V with optional auxiliary battery)
Measures	Current: 0-200A @ 0.01A Resolution Voltage: 0-60VDC @ 0.01V Resolution Power: 0-6554W @ 0.1W Resolution Watt Hours: 0-650kWh @ 0.1Wh Resolution Ampere Hours: 0-6554Ah @ 0.01Ah Resolution
Cable	8AWG
Display	16 x 2 backlit LCD Display
Dimensions	110(W) x 45(H) x 26(D)mm (Excluding Cables)
Net Weight	150g

	Cat.	Qty 1+	Qty 4+	Qty 10+
Bare Leads	MS6190	$56.90	$50.90	$44.90
Anderson® type 50-Amp connectors	MS6192	$69.90	$62.90	$55.90

DC POWER METER 6.5-100V WITH BUILT IN SHUNT AND LCD DISPLAY

NEW

Exceptionally handy for keeping an eye on your solar installation, generator, battery banks, and more. Totally self-contained, so wiring is a breeze, and it's powered form the DC power you're monitoring. Suitable for solar systems up to approximately 2kW or 10kW. Provides details on power, voltage, and current, as well as aggregation of power throughput (which can mean generation or usage depending on your installation) with an easy reset function. Bright blue backlit display provides easy reading in any lighting conditions.

- Real time information
- Large backlit display
- Aggregated energy throughput
- Power Consumption: 0.2W
- Measurement speed: 2 times/s

SPECIFICATIONS	BOTH
Working Voltage	DC 6.5 - 100V
Measuring Accuracy	1%
Power Consumption	0.2W
Measurement Frequency	0.5s
Active Power Test Range	QP2320: 0-2kW QP2321: 0-10kW
Energy Test Range	0-9999kWh
Voltage Test Range	DC 6.5-100V
Weight	62g
Dimensions	90(W) x 50(H) x 25(D)mm

1 YEAR WARRANTY

Test Range	Cat.	Qty 1+	Qty 4+	Qty 10+
0-20A	QP2320	$33.90	$29.90	$26.90
0-100A	QP2321	$45.90	$40.90	$35.90

Battery Management

CAR BATTERY DISCHARGE PROTECTOR

1 YEAR WARRANTY

This handy device plugs straight into your vehicle cigarette lighter socket, and warns you when battery power is running low. Not only that, but it disconnects power through the unit when power gets too low. This means you can run 12V lighting, an inverter or charger etc, and not risk draining your battery such that it causes damage. Simple plug and play operation, no tools required!

- Low battery level indication
- Automatic power disconnection
- Cigarette Lighter Connection
- 10A Circuit protection Fuse
- 95(L) x 35(W) x 155(H)mm
- 138g

Current	Cat.	Qty 1+	Qty 5+	Qty 10+
8A	MB3676	$22.90	$20.90	$17.90

12V BATTERY LOW VOLTAGE MONITOR AND PROTECTOR 10A

Now you don't need any installation to protect your battery. This inline device connects with a cigarette lighter plug and socket, and automatically shuts off power to the connected device (such as a fridge or lighting) if the voltage drops below 11.6V! Power is automatically restored when voltage exceeds 12.8V (eg. the vehicle engine is started). It's simple piece of mind when running power-hungry equipment at a campsite, for instance. Suitable for loads up to 10A.

- Protects battery from excessive discharge
- Power status indicator
- No installation required

SPECIFICATIONS	MB3677
Input Voltage	12V
Cut-off Voltage	11.6V
Cut-in Voltage	12.8V
Current	10A (Max.)
Weight	128g
Dimensions	60(W) x 52(H) x 85(D)mm
Cable Length	85cm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	MB3677	$22.90	$20.90	$17.90

BATTERY DISCHARGE PROTECTOR

1 YEAR WARRANTY

Protects your car battery from total discharge by switching off appliances such as fridges and TV sets before the battery voltage drops to an unrecoverable level. When battery voltage is re-established by recharging, it switches appliances on automatically. The interrupting voltage is adjustable from 10.4.to 13.3VDC. Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.

SPECIFICATIONS	AA0262
Operating Voltage	12VDC
Max. Switching Current	20A
Interrupting Voltage	10.4 - 13.3VDC
Resetting Voltage	Approx. 0.8V (+/-0.3V) above interrupt voltage
Current Consumption	< 0.7mA when OFF, < 1.6mA when ON
Dimensions	87(L) x 60(W) x 32(H)mm

		Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	20A	AA0262	$54.90	$49.40	$43.90

LEAD-ACID BATTERY CONDITIONER

Removes or reduces sulphation which kills batteries. When wet-cell lead-acid batteries are allowed to sit around they will sulphate up in as short a time as 6 months. The sulphate builds up on the plates and separators. This product basically dissolves the sulphation. The product is so good that the manufacturer will extend the warranty on a new battery by a year if used when the battery is new.

- One bottle will do up to an N70Z size battery (4WD, boat, truck etc)
- Will not work with sealed batteries. i,e. you must be able to access the battery fluid to use.

MADE IN

	Cat.	Qty 1+	Qty 4+	Qty 10+
92ml	NA1420	$10.90	$9.90	$8.90

Battery Tester

12VDC LEAD ACID BATTERY TESTER

This battery tester quickly, easily, and accurately measures the actual cold cranking amps capability of the vehicle starting battery. It tests most automotive cranking lead acid batteries, including an ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and GEL battery, etc. It can identify a battery with bad cells, has reverse polarity protection, and meets major battery testing standards such as CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB. The handy device features an LCD display to indicate the results, a menu tab and clips to connect the battery tester to the vehicle's battery.

- Voltage Measure Range: 6-30VDC
- Dimensions: 125(L) x 70(W) x 25(H)mm

Note: Battery not included.

Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	QP2261	$94.90	$84.90	$75.90

12-24V BATTERY TESTER

A simple to use battery tester to check charge condition. Simply connect and read. Includes three different connector methods - battery clamps, eye terminals, and cigarette lighter socket. Suitable for 12 and 24V car batteries, sealed lead acid batteries, and other high-capacity batteries. Provides voltage reading as well as LED indication for under/overcharge. Reverse polarity protected. Note: cigarette lighter socket testing method may only be available with ignition on.

- Simple operation
- Versatile connections
- Under / overcharge indication
- Voltage Range: 11-17VDC / 22-30VDC
- Dimensions: 75(W) x 48(H) x 19(D)mm

1 YEAR WARRANTY

Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
12/24VDC	QP2263	$28.90	$25.90	$22.90

Battery Disconnects & Accessories

BATTERY ISOLATION SWITCHES

High current rated battery isolation switches for high power applications. Often fitted to boats, trucks, motor homes and other battery based power systems to allow for quick and easy electrical isolation of the battery for protection against discharge, fire and other safety risks. Each switch features high quality construction with large bolt-down terminals for electrical connection.

HIGH QUALITY 120A

- Large removable key actuator
- Continuous rating: 120A @ 12V
- Surge rating: 500A
- 60mm diameter mounting plate

SPARE KEY TO SUIT SF2244

PROFESSIONAL 500A

The switch handle features a tight and secure spring loaded actuation, locking the switch into the ON position and requiring you to pull the handle out to turn it off, avoiding accidental battery isolation. Features heavy gauge M12 brass bolt terminals, cast metal body for extra strength and durability, and is also supplied with a right angle mounting bracket.

- Continuous rating (6-48VDC): 500A
- Max rating (6-48VDC): 2000A (10 sec)
- Dimensions: 70(D) x 100(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 120A	SF2245	$21.90	$19.30	$16.90
Spare Key to suit SF2245	SF2244	$10.90	$9.40	$8.40
12V 500A	SF2247	$79.90	$71.90	$63.90

BATTERY ISOLATOR SWITCHES WITH AFD

The switches themselves are very durable and rated for massive output. They feature removable windows on all four sides to cater for whatever cabling arrangement you have. Alternator Field Disconnect (AFD) protects your alternator when switching batteries in and out of the circuit. By disconnecting the alternator moments before the battery (moments after when re-engaging), there's always a load on the alternator to protect the regulation circuitry.

SF2249

TWO MODELS AVAILABLE:

SPECIFICATIONS	SF2249	SF2250
Max Rated Voltage	48VDC	48VDC
Continuous Current	275A	200A
Surge Curremt (5min)	455A	300A
Cranking Current (10 sec)	1250A	1000A

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
275A Battery - On/Off	SF2249	$45.90	$40.90	$35.90
200A Dual Battery - 1/2/Both/Off	SF2250	$56.90	$50.90	$44.90

125A DUAL BATTERY ISOLATOR (VSR)

1 YEAR WARRANTY

A voltage sensitive relay (VSR) is the best way to ensure you can always get your dual-battery vehicle started. If the radio stops working that's one thing, but if you're stranded because your car cannot start because you ran your fridge for too long, that's potentially a life and death scenario. It allows two batteries to be charged from your alternator. Once your main starter battery is sufficiently charged, it will begin charging the second battery too. Fully automatic with emergency override.

SPECIFICATIONS	MB3687
Current Rating	125A
Voltage Rating	12VDC (15VDC Max)
Cut-In Voltage	13.7VDC
Cut-Out Voltage	12.8VDC

		Cat.	Qty 1+	Qty 2+	Qty 4+
12V	125A	MB3687	$56.90	$50.90	$44.90

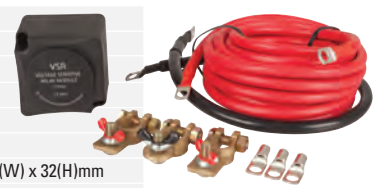
12V 125A DUAL BATTERY KIT WITH CABLE KIT

Adding a second battery to your vehicle or boat provides a major boost to power available when the engine is switched off. However some smarts are required to ensure you can charge both when the vehicle is running, but leave one fully charged when switched off for starting the engine again. This Voltage Sensitive Relay (VSR) kit provides everything you need to wire up your second battery, while handling the isolation during shut-off periods. Provided with marine-grade hardware, so it can be used on a boat or vehicle. Suitable for 12V systems, with a continuous rating of 125A. All wiring hardware and instructions included.

Note: additional black (negative) wire may be required for systems without chassis earth, such as fiberglass boats, depending on your installation.

- Automatically combines two batteries when charging and isolates the two batteries when not charging.
- Fully automatic once installed.
- Storage mode switch for full isolation

SPECIFICATIONS	MB3681
Nominal Voltage	12VDC
Combine Voltage	13.3VDC
Open Voltage	12.8VDC
Continuous Rating	125A
Intermittant Rating	140A
Power Consumption	87(L) x 60(W) x 32(H)mm
Terminal Studs	M6(1/4")



		Cat.	Qty 1+	Qty 4+	Qty 10+
12V	125A	MB3681	$169.00	$151.90	$134.90

tech talk — Battery Maintenance

Periodic inspection of the battery is recommended. If the battery is stored for over six months, it is recommended to charge and discharge the battery several times to recover the battery capacity, failure to do so may result in a loss of capacity and shorter battery life. Bear in mind that self-discharge has to be taken into consideration when storing a charged battery. The remaining battery capacity should be at least 50% after a month of storage at room temperature for a fully charged battery. High storage temperatures will accelerate the self-discharge, and reduce the remaining capacity.

For next day delivery, or Click and Collect, see page 5

Solenoids

HIGH-GRADE INDUSTRY STANDARD SOLENOIDS

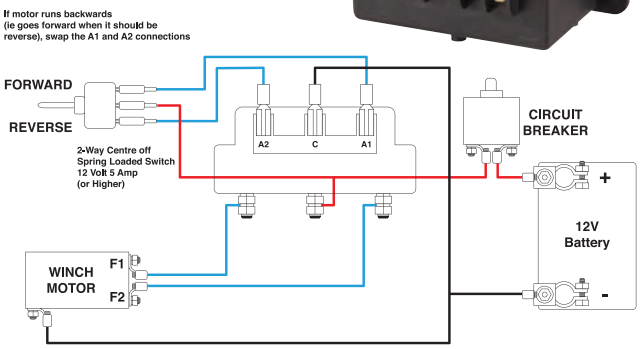
These are high-grade industry standard solenoids. Typically used to operate a winch for one-way operation or to operate a starter motor

SPECIFICATIONS	BOTH
Contact rating	12VDC
Power	4000W max.
High Current Contacts	5/16" Studs
Solenoid contacts	¼" QC tabs
Dimensions	130(L) x 110(H) x 70(W)mm

SINGLE POLE CHANGEOVER SOLENOID

Used to operate a winch for one-way operation or to operate a starter motor. Supplied with a wiring diagram.

SY4200

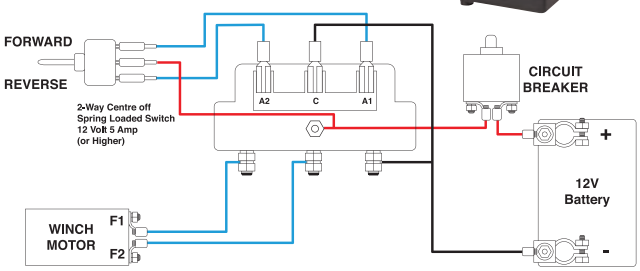


Alternative wiring required for some motors. See website for alternative wiring diagrams.

DOUBLE POLE REVERSING SOLENOID

Typically used to operate a winch for two-way (i.e in and out) use. Supplied with a wiring diagram.

SY4202



Alternative wiring required for some motors. See website for alternative wiring diagrams.

	Cat.	Qty 1+	Qty 5+	Qty 10+
Single Pole Changeover Solenoid	SY4200	$79.90	$71.90	$63.90
Double Pole Reversing Solenoid	SY4202	$94.90	$84.90	$75.90

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Battery Boxes, Trays & Clamps

BATTERY BOXES

Protect your batteries with these sturdy boxes. Perfect for mounting in your boat, trailer or caravan. Includes mounting clamps and lid strap to secure the box properly in place.

Two models available:

TO SUIT 40AH SLA BATTERIES

- Dimensions: Internal: 260(L) x 180(W) x 200(H)mm

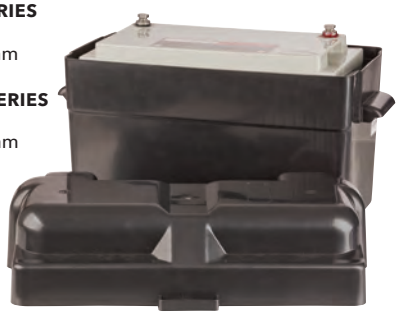
HB8100

TO SUIT 100AH SLA BATTERIES

- Dimensions: Internal: 380(L) x 200(H) x 205(W)mm

HB8102

Note: Battery Not Included.



External Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
365 x 270 x 265mm	HB8100	$39.90	$35.90	$31.90
460 x 265 x 260mm	HB8102	$48.90	$44.00	$39.10

BATTERY BOX WITH VOLTMETER & USB CHARGE

Simply fit your 100Ah deep cycle battery into the box, connect up the positive and negative wires, and you are ready to go. Features an LED voltmeter to help monitor battery level, two high current marine grade cigarette power sockets, two USB sockets, and high current bolt terminals to connect your higher current loads such as an inverter. Over current protection included for the cigarette sockets.

SPECIFICATIONS	HB8502
Suits Battery Size	325(W) x 200(H) x 185(D)mm
Circuit Breaker	16A
USB Sockets	1 x 1A, 1 x 2.1A (3.1A Total)
Cigarette Sockets	2
External Dimensions	424(W) x 306(H) x 251(D)mm
Internal Dimensions	338(W) x 220(H) x 206(D)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
	HB8502	$119.00	$106.90	$94.90

HEAVY DUTY STEEL BATTERY TRAYS

These battery trays are pressed out of 1.2mm mild steel & vinyl coated to protect from acids, oils etc. They feature cruciform slots in the base to facilitate existing mounting holes in a truck or car chassis, as well as slots to allow battery hold-down rods.

Two sizes available:

HB8104:

- Battery Space: 275(L) x 180(W)mm
- Overall Dimensions: 280(L) x 200(W) x 45(H)mm

HB8106:

- Battery Space: 330(L) x 180(W)mm
- Overall Dimensions: 340(L) x 200(W) x 45(H)mm

HB8104

Note: Not recommended for marine salt water use.

Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
Small - 280(L) x 200(W) x 45(H)mm	HB8104	$17.90	$15.90	$13.90
Large - 340(L) x 200(W) x 45(H)mm	HB8106	$18.90	$16.90	$14.90

monthly specials & promotions

Lookout for our monthly promotions in store and online.

Battery Boxes, Trays & Clamps CONTINUED

ADJUSTABLE UNIVERSAL BATTERY HOLD DOWN CLAMP

Universal battery clamp which adjusts to suit batteries ranging from 135-190mm width and 150-230mm height.

- Metal construction with wing nut adjustments

Note: Battery not included.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HC4039	$11.90	$10.70	$9.50

Battery Terminals

UNIVERSAL BRASS BATTERY TERMINALS

These heavy duty, solderless range of Marine grade brass plated zinc battery terminals have got you connected. With five options available from universal saddle, lug bolt style, side barrel, end entry and not forgetting the built in isolating switch perfect for isolating your battery to prevent battery drain when not in use. Sold in pairs, POS - NEG, HC4038 isolation type sold singular (Negative post only).

HC-4030 HC4034 HC4038

Type		Cat.	Qty 1+	Qty 4+	Qty 10+
Saddle	Pair	HC4030	$11.90	$10.70	$9.50
Lug Bolt Style	Pair	HC4034	$11.90	$10.70	$9.50
Isolating (Negative Post)	Each	HC4038	$11.90	$10.70	$9.50

GOLD PLATED BATTERY TERMINALS

This terminal is made from brass, and is gold plated. It has a 6mm bolt, and wing nut on which our gold terminals can be connected to run cabling to equipment. Suits positive car battery terminals

AMP-KING

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HC4040	$11.90	$10.70	$9.50

MULTI-CONNECT BATTERY TERMINAL - RED

This Multi-Connection Battery Terminal can be used to terminate up to 4 electronic devices. It can also be used separately as a bus-bar that connects to multiple devices. Perfect for simplifying the wiring in the car, surveillance or security system and other 12V applications where multiple accessory wiring is needed.

- Terminates up to 4 electronic devices
- Red colour for positive connections
- Does not need screws
- Spade terminals included
- Dimensions: 75(L) x 40(W) x 20(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
12V	HM3089	$11.90	$10.70	$9.50

4 WIRE 2G + 4G + 2X8G BATTERY TERMINALS

These 4 wire gold battery terminals will accept one 2GA, 4GA cables and two 8G cables. These units come complete with clear cover.

NOTE: Cable not included

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Positive	HC4048	$24.90	$22.40	$19.90
Negative	HC4049	$24.90	$22.40	$19.90

Battery Chargers - Low Current

6/12V FULLY AUTOMATIC LEAD ACID BATTERY CHARGER 800MA

Fully automatic operation for keeping batteries charged constantly. Perfect if you have a motorbike / ATV battery, alarm battery, or other sealed lead acid type battery that needs to be kept topped up. Automatic operation detects battery status to prevent over-charging. Includes reverse polarity protection to keep your battery safe.

- Auto shut off
- Reverse polarity protection
- LED indicator, charging/ fully charged
- 1.8m lead with battery clips
- Suits ride-on mowers, small motorbikes & motor scooters
- See page 382 for applications

SPECIFICATIONS	MB3519
Input	100-240VAC 50/60Hz
Output	6V @ 800mA / 12V @ 800mA

	Cat.	Qty 1+	Qty 2+	Qty 4+
6/12V @ 800mA	MB3519	$33.90	$29.90	$26.90

12V AUTOMATIC LEAD ACID BATTERY CHARGER 1A

This intelligent automatic battery charger stops charging when the battery is full and starts to maintain the battery with a 'floating' charge mode. The charger monitors the battery voltage and tops-up the battery to keep it fully charged all the time. This feature allows you to leave the charger connected to the battery without risk of overcharging. It comes with a LED indication for battery charging status. The 2m long cable includes an interchangeable DC plug and Alligator clips.

- Great for jet skis and smaller motor bikes
- See p382 for applications

SPECIFICATIONS	MB3619
Input	100-240VAC, 60/50Hz
Charging Current	1000mA
Charging Voltage	12.0VDC
Float Output Voltage	14.4VDC
Bulk Charge Mode Voltage	14.0VDC
Dimensions	70(L) x 40(D) x 40(W)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
12V	1000mA	MB3619	$24.90	$22.40	$19.90

6,12 & 24V AUTOMATIC LEAD ACID BATTERY CHARGER 1.2A

1 YEAR WARRANTY

This switchmode SLA battery charger has an automatic function that cuts the charging current to near zero once the battery is charged, whilst still continuing to monitor battery voltage. Works with 6V, 12V or 24V SLA batteries, and automatically detects the battery voltage ensuring you don't make any mistakes - just connect the charger and it starts automatically. LED indicator shows charging state, with connections made by alligator clips.

- 6V, 12V and 24V charging
- Short circuit & reverse polarity protection
- Automatic cut-out and voltage detection
- Will not charge a completely flat battery
- Great for jet skis and larger motor bikes
- Dimensions: 100(L) x 45(W) x 20(D)mm

		Cat.	Qty 1+	Qty 2+	Qty 4+
6V/12V/24V	1.2A	MB3527	$48.90	$44.00	$39.10

p.382 - for applications

pick me Battery Chargers

	MB3519	MB3619	MB3527	MB3522	MB3625	MB3623	MB3609	MB3611	MB3613	MB3627	MB3607	MB3621
Output Voltage(s)	6/12VDC	12VDC	6/12/24VDC	6/12VDC	12VDC	6/12/24VDC	6/12VDC	6/12VDC	12/24VDC	12VDC	12/24VDC	12VDC
Max Output Current	800mA	1A	1.2A	6.8A / 5.4A	10A	2A / 15A / 7A	1.5A	1A / 4A	7.2A / 3.6A	8A	15A / 7.5A	30A
Multi Stage				4	5	5	3	4	9	8	9	5
IP65 Rated								•	•	•	•	
Power Supply Mode											•	
Page	381	381	381	382	382	382	383	383	383	384	384	385

6V & 12V, 8A HEAVY DUTY WITH TRICKLE CHARGE

This charger is suitable for both 6 and 12 volt car, boat, motorcycle and lawnmower batteries. Featuring 4-stage LED charge indicators, the charger can be switched between trickle or heavy duty charge rates and is recommended for casual, domestic charging tasks. The unit is housed inside a tough plastic case with carry handle, is double insulated and features overload and reverse battery protection. The battery leads are terminated to heavy duty alligator clips on a 1 metre length of cable.

- Complies with Australian Electrical Safety Regulations
- Good general workshop charger

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
6V/12V	8A	MB3522	$94.90	$85.40	$75.90

12V 10A INTELLIGENT SWITCHMODE 5 STAGE CHARGER

A robust 12V battery charger packed with useful features to safely charge and maintain the life of your batteries. The front control panel allows you to control the battery type being charged (see below for supported types), the desired charge rate, the display mode (current, battery voltage, charge percentage). It will also indicate if there is a battery fault or if the polarity is reversed in which case the charging will immediately stop to protect the battery. Features positive/negative fly leads with clips that are neatly tucked away into a compartment at the rear of the unit.

- Short circuit & Overheat protection
- Voltage compensation
- Polarity reversal protection
- Fan cooled
- Faulty battery indicator
- Charging current: 2A (Low), 6A (Normal), 10A (High)
- Input voltage: 220VAC-240VAC
- Supported battery types: WET/Flooded, GEL, AGM, MF, VRLA rechargeable batteries
- Dimensions: 230(H) x 170(W) x 140(D)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
12V	10A	MB3625	$169.00	$151.90	$134.90

tech talk MB3519, MB3619 & MB3527 chargers

These chargers are ideal for units that spend a long time unused and therefore with the danger that the starter motor batteries will sulphate up and die. By putting one of these units permanently on trickle charging the battery (in the jet-ski, vintage car, snowmobile, etc) will be ready to rock-n-roll the next time you use it.

6V/12V/24V 15A INTELLIGENT BATTERY CHARGER

1 YEAR WARRANTY

An intelligent battery charger suitable for flooded and gel lead acid batteries including deep cycle batteries at 6V, 12V or 24V. The microprocessor controlled unit provides 4 stages of charging, Soft Start, Bulk Charge, Absorption and Float which assists in the batteries life expectancy and performance. An auto detection feature provides a user friendly experience, which can be pre-programmed or manually set for greater control. Should a blackout occur or AC input power be lost during a charging operation the memory function will resume charging once power is re-established. Other features include temperature/voltage compensation, reverse polarity/short circuit protection and a battery status indicator. Ideal for cars, motorcycles, caravans and boats with battery capacities between 20-200Ah. It's also ultraportable with a handy storage pocket in the back for the leads.

- Memory function
- Temperature controlled fan
- LED battery status display
- Temperature and voltage compensation

Protection:

- Anti spark
- Short circuit & reverse polarity
- Over heating/current voltage

SPECIFICATIONS	MB3623
Input	220 - 240VAC, 2.5A
Output	15A @ 12V , 7A @12V/24V, 2A @ 6V/12V/24V
Dimensions	230(H) x 170(W) x 140(D)mm

		Cat.	Qty 1+	Qty 2+	Qty 4+
6V/12V/24V	15A	MB3623	$189.00	$169.90	$150.90

p.386 - range of jump starters

tech talk Low Current Chargers

Low current output designed to steadily recharge sealed lead acid (SLA) batteries without causing the battery to overheat and become a swollen mess. As a guideline the charger's current rating should be no more than 10 to 15% of the battery's ampere-hour rating.

tech talk High Current Chargers

Higher current chargers steadily recharge larger lead acid batteries such as car, marine or high capacity deep cycle batteries. Available in simple models which need to be monitored manually ie. disconnected when the battery is fully charged, and automated models which monitor battery condition. Automated models have higher charge rates and improve battery life as their control systems prevent overcharging. Jaycar does not stock simple chargers, only automatic types.

Switchmode Multi-State Battery Chargers:

High tech SLA battery chargers for automotive, marine, motorcycle, workshop or industrial use. All feature switchmode operation, multi-stage maintenance and charging, near-bulletproof performance & microprocessor control. All are IP rated for use in workshop and hostile environments.

- Short circuit & reverse polarity protection
- Dust & splash proof - most are IP65 rated
- Anti-spark protection

6/12VDC 1.5A 3 STAGE BATTERY CHARGER

3 stage set and forget maintenance charger. Automatically diagnoses and recharges 6 or 12V lead acid, gel and AGM rechargeable batteries for boats, motorcycles etc. This little unit packs a real punch with 1.5A maximum charging power for faster recharging. Maintains your battery for months and extends battery life by constantly monitoring battery condition for bulk, trickle or maintenance charges accordingly.

SPECIFICATIONS	MB3609
Output Voltage	7.2, 14.2VDC
Charging Current	1.5A max
Efficiency	>75%
Back Current Drain	<35mA
Capacity	6 - 20Ah
Dimensions	110(L) x 58(W) x 46(D)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
6/12VDC	1.5A	MB3609	$59.90	$53.90	$47.90

12V-7.2A/24V-3.6A 9 STATE CHARGER

The bigger brother of MB3611, this is a fully automatic 9 state charger for 12 or 24V sealed lead acid batteries- wet cell, gel cell, AGM and LiFeP04 batteries.. Advanced diagnostics enable this unit to maximise charge rate while also maximising battery life. You can also switch it onto power supply mode where it will act as a 13.8V and up to 5A power supply, useful in supplying power to computer systems of many modern cars when replacing batteries.

SPECIFICATIONS	MB3613
Input Voltage	220 - 240VAC
Output Voltage	5-14.7V (12V battery), 10-29.4V (24V battery)
Input Current	5A @ 220VAC
Charging Current	12V - 7.2A, 24V - 3.6A
Efficiency	>75%
Ripple	≤150mV
Back Current Drain	≤1.2mA
Rated	IP65
Dimensions	210(L) x 90(W) x 60(D)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
12/24VDC	7.2A/3.6A	MB3613	$209.00	$187.90	$166.90

tech talk Multi State Charger

All-in-one chargers which have multiple charge settings to suit different sized batteries and charging requirements. Capable of recharging the battery and maintaining the charge state indefinitely, they are particularly well suited to being continuously connected to a battery. Some models also have additional functions such as rapid boost charging and can also be used as a general purpose high current power supply.

6/12VDC 4A 4 STATE CHARGER

This smart charger uses a microprocessor to diagnose the batteries state of charge, providing the correct charging mode, eventually switching to float/maintenance charge to keep the battery at full charge and eliminate battery sulphation. Suitable for all types of SLA batteries-wet cell, gel cell, AGM and LiFeP04 ranging from 5Ah to 120Ah.. This charger has pre charge mode to identify sulphated batteries and pre charge at low current for a period before automatically switching to high current to extend your battery's working life.

- 4A max at 12V/1A max at 6V
- IP65

SPECIFICATIONS	MB3611
Charge Modes	Pre-charge, Constant current, Constant voltage, Float charge
Ripple	≤120mV
Back Current Drain	≤1.2mA
Back Current Drain	<35mA
Dimensions	200(L) x 70(W) x 50(D)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
6/12VDC	4A	MB3611	$109.00	$97.90	$86.90

tech talk Multi State Charging States

Charging states include:

BATTERY TEST - Checks the battery to ensure it is ready for charging, polarity of leads etc.

DESULPHATION: Detects sulfated batteries. Pulsing current and voltage, removes sulfate from the lead plates of the battery restoring the battery.

SOFT START: Initial battery test to determine battery condition. If the battery is severely discharged, charger will begin the Soft Start stage. Charging starts with reduced current until battery voltage reaches a normal condition for charge.

BULK MODE: Major charging stage where the battery receives the majority of its charge. During this stage the battery is charged to up to 80% capacity.

ABSORPTION MODE: Completes the charge up to virtually 100% at a slower charge rate to protect the batteries working life.

RECONDITION MODE: Select "Recondition" mode, charges at higher voltage to recondition the sulfate of the battery to save battery life.

ANALYSIS: Tests if the battery can hold charge. Batteries that cannot hold charge may need to be replaced.

FLOAT: Low constant voltage, minimal charge current, battery is fully charged.

PULSE MODE: Maintaining the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep the battery fully charged.

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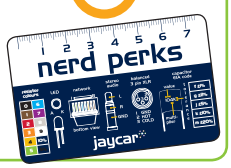


For next day delivery, or Click and Collect, see page 5

Battery Chargers

12V 8A 8-STEP AUTOMATIC MARINE BATTERY CHARGER WITH DUAL OUTPUT

Designed to charge and maintain 12V lead-acid batteries, including Wet, MF, VRLA, AGM and Gel, and Calcium batteries from 1.2Ah to 120Ah. Compact in size, but feature-packed with intelligent charging and dual channel output to charge two batteries simultaneously up to 4A each. The 8-step charging process includes Diagnosis, Recovery, Soft Start, Bulk, Absorption, Analysis, Float, and Maintenance for larger capacity batteries. The housing is dust and waterproof rated to IP68, making it suitable for outdoor and marine use. Safety features include short circuit, open circuit, reverse polarity, battery low, over temperature, spark, and safety time protection. Mains powered.

- Suits Wet, MF, VRLA, AGM, GEL, and Calcium
- Dual Channel
- IP68 dust and waterproof rated

NEW

3 YEAR WARRANTY

SPECIFICATIONS	MB3627
Input Voltage	220-240VAC, 50/60HZ, 1.2A
Output	2 x 12VDC, 4.0A
Output connectors	Large Alligator Battery Clips
Stand-By Power	<2W
Reverse Current	<5mA
Voltage Tolerance	±0.2V
Current Tolerance	±10% for 4.0A ±10% for 2.5A ±15% for 0.9A
Normal Battery Voltage	2.0-14.8V
Charge Control Type	CC/CV, Float Charging for Backup Power
Cable Length	Mains Power Plug to Unit: 2m Unit to Battery Clamps: 1.8m
Dimensions	178(W) x 139(D) x 50(H)mm
Weight	2kg

Cat.	Qty 1+	Qty 2+	Qty 4+
MB3627	$149.00	$133.90	$118.90

12V-15A/24V-7.5A 9-STATE CHARGER

Nine step fully automatic 15 amp high current charger with maintenance charging of all types of SLA batteries as well as lead-calcium batteries from 50 - 250Ah, and either 12V or 24V. The electronics are fully microprocessor controlled and protected against user error, so is totally safe to leave connected for months at a time. This charger will also charge in sub-zero temperatures, will recover sulphated batteries and can be used as a 10A power supply. Also features "boost" modes to recover deeply discharged batteries. The battery output lead has a temperature sensor to automatically compensate charging voltage dependant on temperature, so no matter what the conditions, you will get a full charge into your battery. The output lead is also fitted with Anderson® connectors to allow for easy connection to existing wiring or use of the included alligator clips or bolt terminals.

- Short circuit and reverse polarity protection
- Anti-spark protection
- IP65 outdoor rated
- Standby, fault, mode selection & charging LEDs
- Mounting feet for wall mounting
- Safe to leave connected for months at a time

SPECIFICATIONS	MB3607
Input Voltage	220 - 240VAC
Output Voltage	12 or 24VDC
Input Current	2A max
Charging Current	12V-15A, 24V-7.5A, 12V-Calcium-5A
Efficiency	>75%
Ripple	150mV, 300mA max
Back Current Drain	<5mA
Rating	IP65
Dimensions	260(L) x 135(W) x 70(H)mm

3 YEAR WARRANTY

		Cat.	Qty 1+	Qty 2+	Qty 4+
12V/24V	15A/7.5A	MB3607	$429.00	$379.00	$339.00

12/24V 20A DUAL INPUT DC/DC MULTI-STAGE BATTERY CHARGER

This is the ideal device for managing charging from multiple sources. It's really designed for managing solar + alternator power inputs, charging an auxiliary (house) battery system. The system will preference solar, providing lower loads on your engine when solar is available. With automatic ignition detection enabled, the system will isolate the starting battery when the engine is off, preventing discharge of your critical starting battery. It's fully automatic, with a set-and-forget type operation. A remote status indicator is included to provide in-car feedback of the system's status. Heavy duty screw down terminals are provided for power connections. Works with lead, AGM, and LiFePo4 batteries (selectable), and PV systems up to 30V open circuit voltage (i.e. 12-24V rated panels).

- Dual input - solar and / or alternator/ car battery
- Works with 12V or 24V input
- 20A max charging current (automatically controlled)
- Automatic starter battery isolation

See website for full specificatons.

SPECIFICATIONS	MB3683
Rated Output Power	13.8VDC @ 20A
Efficiency	≥90%
DC Input Voltage Range	9 - 16VDC (12VDC Input) / 18 - 32VDC (24VDC Input)
Weight	870g
Dimensions	130(W) x 188(H) x 55(D)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 4+
MB3683	$339.00	$299.00	$269.00

Battery Chargers CONTINUED

ON-BOARD MARINE BATTERY CHARGER

1 YEAR WARRANTY

Advanced electronic and fully automatic multi-stage marine battery charger that mounts on-board your boat to charge the cranking and house batteries, once you connect to shore power. The multi-stage charging process delivers five modes of operation, including start-up diagnostics, charging, conditioning, auto maintenance and storage reconditioning of each battery. This process is proven to extend the life of your batteries and will fully charge your batteries each time you connect to AC power. The charger Distributed-On-Demand® charging technology will automatically sense and distribute 100% of the available charging output of 15 or 20 amps to any one battery or combination of all batteries. Each battery charger output is fully isolated.

- Suits Flooded, Standard AGM, and GEL batteries
- Prewired with 1.8m leads for easy installation
- 100% Waterproof (IP67) and Saltwater tested
- Microprocessor controlled
- System OK & battery bank trouble status indicators
- Energy saver & storage recondition modes
- IP68
- Pulsing Output
- Max output: 15A/20A
- Multi-stage Charging: Analyse, Charging, Conditioning Auto Maintain (Sleep mode), Auto Maintain (Maintenance mode), Storage Recondition
- Overload, over voltage and over temperature protection
- Reverse Polarity Protection
- Ignition Protection
- LED display showing power, Charge, Charging/Conditioning/ Auto Maintain, Battery type
- Flood & Standard AGM / high performance AGM/ GEL, and System Check OK LED
- Dimensions: 310(W) x 185(H) x 70(D)mm, 2.7kg

		Cat.	Qty 1+	Qty 2+	Qty 4+
12/24/36V	20A Triple Battery	MB3617	$459.00	$409.00	$359.00

MULTI-STAGE CHARGER FOR LITHIUM AND LEAD ACID BATTERIES 12V 30A

NEW

1 YEAR WARRANTY

Charger for lead acid and lithium batteries that can operate with or without a load.

This professional charger intelligently charges 12V Lead Acid, AGM and Lithium (LiFePO4) batteries from 50Ah to 300Ah, with (rated output of load should be less than that of charger) or without load. A 5-stage charge mode for Lead Acid batteries includes Soft, Bulk, Absorption, Float and Standby, with Refresh and Equaliser options to keep your Lead Acid battery in peak condition. A half power mode suits batteries under 100Ah and a special algorithm effectively charges LiFePO4 batteries using Bulk and Absorption modes.

Just one button is all that is needed to operate the charger, with 7 panel mount LEDs indicating the battery selection and charging status. The robust and durable enclosure features a built-in thermostatically controlled cooling fan, which can be set to sleep mode for 8 hours so not to disturb you at night. A host of safety protection features include short circuit protection, self-recoverable over temperature protection, and self-recoverable reverse polarity (fused). Supplied with three charging cables terminated to 50A Anderson connectors, large battery clips and eye terminals.

- LED display
- Multi-stage charging
- Power supply mode
- Battery Temperature sensor
- Equalization and soft start
- Short Circuit protection
- Reverse polarity protection
- Over temperature protection with self-recovery
- Suits batteries 50-300Ah

Charge Stages:

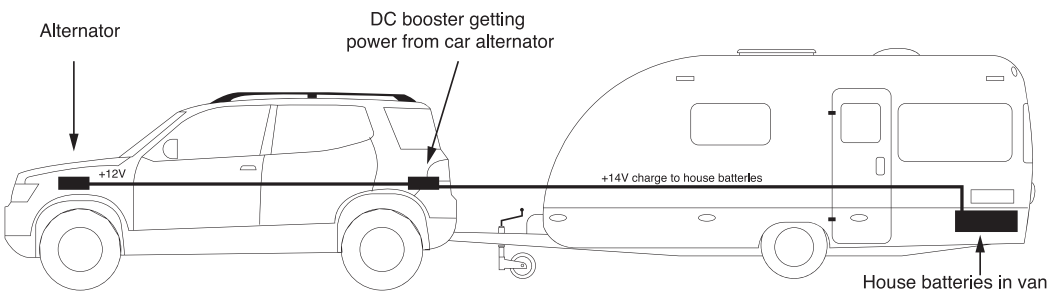
- Soft-Start
- Bulk
- Absorption
- Float
- Standby

SPECIFICATIONS	MB3621
No Load Current	≤120mA
Output Voltage	Lead: 14.4V (Absorption), 13.6V (Float) AGM: 14.7V (Absorption), 13.6V (Float) LiFePO4: 15.5V (Absorption), N/A (Float)
Recycle Day	7 Days
Max Output Charge Current	30A
Recommended Battery Capacity	100-300Ah @ 30A, 50-150Ah @ 15A

	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 30A	MB3621	$399.00	$359.00	$319.00

tech talk DC To DC Converters Explained

The alternator in your car engine will typically produce 14+ volts to keep your starter motor battery topped up nicely. If you are towing a caravan or camper trailer you really need to keep those house batteries in tip-top condition, especially after a long tow. It's quite possible that your 'house' batteries are being drained inadvertently as you are driving along. You certainly do not want to get to your camping site at the end of the day with half flat house batteries! Simply connecting a +12V wire from your car alternator to your house batteries will not do the job! Due to the distance between your alternator, the trailer connector and the cable to your battery bank you will typically drop 2.0 volts along the way. There simply will not be enough 'juice' to charge up your house batteries. What you need is a DC booster that lifts your nominal +12V alternator charge to a healthy +14.4 to +16.0 DC (max) to automatically give your house batteries the charge they need as you drive along. They are automatic chargers and will not overcharge or damage your precious cells. You won't know what you did without one! They are shown on page 382.



Keep your house batteries topped up on the run.

For next day delivery, or Click and Collect, see page 5

pick me Jump Starters

	MB3753	MB3757	MB3758	MB3734	MB3736	MB3759
Voltage	12V	12V	12V	12V	12V	12/24V
Cranking Current	200A	300A	350A	300A	400A	500A (250A @ 24V)
Amp Hours	7.5Ah	11.1Ah	18Ah	12Ah	17Ah	22Ah
Battery Type	Li-Po	Li-Po	Li-Po	SLA	SLA	Li-Po
LED Light	•	•	•	•	•	•
USB Out	1 x 2.4A	1 x 1A, 1 x 2A	1 x 2.4A, Type-C x 3A	1 x 2.4A	1 x 0.5A, 1 x 2.1A	1 x 2.4A
Air Compressor					•	
19V Laptop Supply			•			
Page	386	386	387	387	387	387

It was not until battery manufacturers came up with small (generally) lead-acid batteries with low internal impedance that enabled these products to emerge. With such battery technology, it was possible to make a portable power source in a reasonably lightweight package with enough grunt to be useful. Up until that point you had to borrow a full-size battery - or a nearby vehicle to jump-start a car or truck.

Even if that jump-start capability was the only feature, they'd be worth having. But, in addition they have other in-built features which include: small air compressors, AC/DC chargers, USB outlets, 240V inverters & jumper cables! No wonder these products are some of the fastest sellers in the Jaycar range. There is no reason why everyone who owns a car, 4WD, boat, caravan, truck etc. would not have one.

12V 400A GLOVEBOX JUMP STARTER & POWERBANK

Gone are the days of flooded engines and manual chokes to get your car started, but that pesky battery still has a habit of failing at the most inconvenient of times. This unit is amazing. Barely larger than a smartphone, and probably even lighter, but packs a huge power punch to get your car started. With a peak current available of 400 amps, it's powerful enough to get just about all but a tank running. Of course, sometimes emergency phone power is just as important as starting a car, so a 5V 2A USB port is provided to get you powered back up. It even includes a cigarette lighter socket charging adaptor, so it never has to leave your car (just remember to charge it when your battery is NOT flat!). In case it's dark, it also incorporates a clever high-power LED. It can provide torch light, flashing strobe, or flashing blue and red - all have their respective purposes. These devices are now so reliable that similar ones are used by roadside service operations instead of jumping from their own vehicle! If you have more than one vehicle in your family, one for each is a very sound idea.

1 YEAR WARRANTY

SPECIFICATIONS	MB3753
Battery Capacity	7.5Ah
Battery Type	Lithium-polymer
USB Output	5VDC/2A
Jump Starter Output	12V @ 200A (400A peak)
Weight	271g
Dimensions	130(L) x 70(W) x 25(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	MB3753	$149.00	$133.90	$118.90

12V 450A LI-PO JUMP STARTER & POWERBANK

Powerful enough to start most vehicles, it'll crank an engine up to a 5L petrol, or 3L diesel. When not being used for jumpstarting it includes an LED torch, as well as a strobe/orange warning light. You can charge USB devices using one of the two USB ports, one rated at 1A, the other at 2A. Recharge time is less than 5 hours, recharged using the supplied mains adaptor. Never leave home without it!

1 YEAR WARRANTY

SPECIFICATIONS	MB3757
Battery Capacity	11.1Ah
Battery Type	Lithium-polymer
USB Output	5VDC/2A & 5VDC/1A
Jump Starter Output	12V @ 300A (450A peak)
Weight	420g
Dimensions	142(L) x 66(W) x 30(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	MB3757	$169.00	$151.90	$134.90

tech talk Lithium Polymer (Li-Po)

Lithium Polymer (Li-Po) batteries are exceptionally lightweight and pack alot of power into very small and lightweight case. They can also deliver an exceptionally high current in a very short space of time, making them ideal for jump starter and power bank devices. Sealed Lead Acid models still typically provide a higher capacity overall, but are much larger and heavier. Our Li-Po based models will fit in your glovebox without a fuss. However like most rechargeable batteries, regular recharging will keep them ready to go at a moment's notice.

Jump Starters CONTINUED

12V 700A JUMP STARTER & POWERBANK WITH LAPTOP POWER

Using a huge 18,000mAh Li-Po battery, rated at a massive 700A peak (350A continuous) jump starting current. It's an absolute beast, but still compact in size. Not only will it start your car, it provides 12/16/19V @ 3.5A to run a laptop. It also provides a 3.5A USB Type-C outlet, and a 2.4A USB outlet. That covers a large majority of portable devices, including the car! Will start big motors, up to 7L petrol and 4L diesel. Features an integrated torch and warning strobe, and is recharged using the supplied car or mains adaptor.

SPECIFICATIONS	MB3758
Battery Capacity	18Ah
Battery Type	Lithium-polymer
USB Output	5VDC/2.4A (Type A) & 5VDC/3.0A (Type-C)
Jump Starter Output	12V @ 350A (700A peak)
Weight	640g
Dimensions	216(L) x 85(W) x 36(H)mm

	Continuous	peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	350A	700A	MB3758	$289.00	$259.00	$229.00

12V 1000A 12AH JUMP STARTER WITH 2.4A USB & LED LIGHT

Extremely portable with ultra heavy duty battery clamps. A cigarette lighter socket, 4 x LED worklight, and USB charging socket are also provided. Safety features such as reverse polarity protection and a master switch are provided. You can easily check the internal battery's condition at the touch of a button.

- 1 x USB charging sockets
- 1 x cigarette lighter sockets

SPECIFICATIONS	MB3734
Battery Capacity	12Ah
Battery Type	Sealed Lead Acid
USB Output	5VDC/2.4A
Jump Starter Output	12VDC @ 300A (1000A peak)
Weight	6.1kg
Dimensions	251(L) x 173(W) x 307(H)mm

	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	300A	1000A	MB3734	$159.00	$142.90	$126.90

12V 1100A 17AH JUMP STARTER WITH AIR COMPRESSOR

So much more than a jumpstarter. Sure, it has selfcontained jumper leads and a huge 17Ah battery, so it'll bail you out of many situations. But the real utility of this unit comes from the additional features. There's a built-in air compressor to inflate tyres. There's a 5-LED high power work light on the front so you can see what you're doing. 2 x cigarette lighter sockets as well as 2 x USB sockets for powering and recharging many devices. An internal battery condition gauge helps you make sure it's ready for action, and it's all in a self-contained unit! Includes mains and 12V charging adaptors.

- 400A 12V jump starting
- 2 x USB charging sockets
- 2 x cigarette lighter sockets
- Air compressor with tyre inflator

SPECIFICATIONS	MB3736
Battery Capacity	17Ah
Battery Type	Sealed Lead Acid
USB Output	5VDC/2.1A & 5VDC/0.5A
Jump Starter Output	12VDC @ 400A (1100A peak)
Weight	8.6kg
Dimensions	285(L) x 227(W) x 310(H)mm

	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	400A	1100A	MB3736	$229.00	$199.00	$179.00

12/24V 1000/500A LI-PO JUMP STARTER

Lithium battery jump starters revolutionised jump starter technology, making them lightweight and ultra-compact. This one is compact, but it's great on the inside! It works on 12V or 24V systems, to provide a whopping 1,000A of peak current (500A on 24V systems). A massive 22,200mAh of LiPo power is ready to leap into action at a moment's notice. Capable of starting cars, motorbikes, but also large motors such as boats, trucks, buses, other industrial and commercial applications. Intelligent detection circuitry provides automatic 12 / 24 selection, with a manual override option useful with very low discharged batteries (when Auto mode isn't able to detect correct battery voltage). Like all good power banks, a USB outlet is also provided for mobile phone charging and powering other usb devices too. A small light is also included which is very useful at night and in enclosed spaces. Short circuit, over-temperature, over-current, and internal battery protections are included to ensure the jump starter stays in good working order. Mains and car charger included, with battery-level indicators on the unit.

- Ultra high capacity jump starter
- 12V / 24V compatible starting with automatic detection
- USB charging outlet and light

SPECIFICATIONS	MB3759
Battery Capacity	22Ah
Battery Type	Lithium-polymer
USB Output	5VDC/2.4A
Jump Starter Output	12VDC @ 500A (1000A peak), 24VDC @ 250A (500A peak)
Weight	2.7kg
Dimensions	269(L) x 129(W) x 241(H)mm

	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V	500A(12)/250A(24)	1000A(12)/500A(24)	MB3759	$399.00	$359.00	$319.00

For next day delivery, or Click and Collect, see page 5

Jumper Leads

p.176
suitable cable to make your own jumper leads, any length!

HM3012 HM3060 HM3085

CAR BATTERY TYPE CLIPS

The 400 amp versions are very large and very strong. You cannot put your finger in the end, because it will probably give you a bite! These are ideal for our 300W and 500W inverters.

- All have insulated colour coded handles

current	Length	Max Jaw Opening		Cat.	Qty 1+	Qty 10+	Qty 50+
15A	55mm	14mm	Pair	HM3010	$4.50	$3.70	$3.30
30A	70mm	20mm	Pair	HM3012	$4.90	$4.10	$3.70
50A	98mm	25mm	Pair	HM3015	$6.90	$5.70	$5.20
200A	130mm	35mm	Pair	HM3060	$11.90	$10.70	$9.50
400A	155mm	22mm	Pair	HM3085	$19.90	$17.90	$15.90

HEAVY DUTY 400A JUMPER LEADS WITH LED ILLUMINATION

A super handy set of jumper leads to leave in the back of the car! Each battery clamp has a LED light built in, powered by built-in batteries, so even in the dark you can find your way around the engine bay. The jumper leads are fitted with a voltage surge protector to keep your vehicle electronics safe. Supplied in a clear plastic carry case.

- Voltage surge protection WH6012_Main
- 400A current rating
- 8 x LR44 button batteries included
- 3m long

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 3+	Qty 6+
400A	3m Long	WH6012	$42.90	$38.60	$34.30

EXTRA-HEAVY DUTY 700A JUMPER LEADS WITH LED ILLUMINATION

Rated at 700A, they are suitable for higher CCA (Cold Cranking Amp) loads on big V6s, V8s and diesel 4WDs. At 4.5m long, they have that extra bit of length over your typical jumper leads, which always makes the difference when dealing with large 4WD engine bays. Fitted with a surge protector to protect sensitive electronics, and supplied in a handy clear plastic carry case. LEDs powered by built in batteries (included).

- Voltage surge protection
- 700A high current rating
- 8 x LR44 button batteries included
- 4.5m long

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 3+	Qty 6+
700A	4.5m long	WH6014	$86.90	$78.20	$69.50

24VAC/DC TO 12VDC 1A CONVERTER

Trying to get power for CCTV and security cameras over a long run without losses is challenging to say the least. Solve the problem quickly and easily by sending 24VAC down the long run, then converting it to 12VDC when you get it where you need it. Connection is by screw terminals.

SPECIFICATIONS	MP3350
Input	20 - 28VAC, 16 - 30VDC
Output	12VDC regulated
Output Current	1A max
Dimensions	90(L) x 25(W) x 25(H)mm

1 YEAR WARRANTY

Current (Max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
1A	MP3350	$48.90	$44.00	$39.10

24VDC To 12VDC Converters

24VDC TO 12VDC 3A CONVERTER

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included) should be used for superior performance.

- Short-circuit protection & thermal cutout

1 YEAR WARRANTY

SPECIFICATIONS	AA0266
Input Voltage	24 to 26 VDC
Output Voltage	12VDC
Maximum Load	3A
Dimensions	135 x 50 x 24 mm
Heatsink	50 x 100 x 30 mm (rec. size), use Cat. HH8572 or similar

Current (Max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	AA0266	$36.90	$33.20	$29.50

5A 24V-12V DC-DC CONVERTER WITH USB CHARGE

Includes two 2.4A USB ports are also included to charge Smartphones, Tablets, and other USB powered devices. It has a noise filter built in, and safety features include fuse protection, over-voltage, and current limiting.

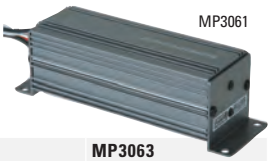
SPECIFICATIONS	MP3356
Max. Output Current	5A (Cigarette Socket), 2.4A (USB)
Continuous Current	4A (Cigarette Socket), 2A (USB)
Efficiency	Over 85%
Input Connection	Cigarette Plug with 1m Cable

1 YEAR WARRANTY

Current (Max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP3356	$74.90	$66.90	$59.90

24VDC TO 12VDC CONVERTERS

DC to DC converters are useful for running 12V devices from a 24V supply in a truck or bus. These have switchmode technology for light weight & compact design.



MP3061

SPECIFICATIONS	MP3061	MP3063
Current	10 Amp	20 Amp
Input Voltage	20 - 30VDC	20 - 30VDC
Output Voltage	13.8VDC	13.8VDC
Max, Output Current	10A	20A
Continuous Output Current	7A	15A
Efficiency	85%	85%
Dimensions	160(L) x 48(W) x 48(H)mm	210(L) x 90(W) x 50(H)mm

1 YEAR WARRANTY

Current (Max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
10A	MP3061	$94.90	$85.40	$75.90
20A	MP3063	$149.00	$133.90	$118.90

24VDC TO 12VDC 10A CONVERTER

Switchmode technology for light weight and compact design and are rated for 10A. Input and output is via cigarette lighter plug and socket.

SPECIFICATIONS	MP3352
Input Voltage	20 - 30VDC
Output Voltage	13.8VDC
Max, Output Current	10A
Continuous Output Current	7A
Efficiency	85%
Dimensions	160(L) x 48(W) x 48(H)mm

1 YEAR WARRANTY

Current (Max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
10A	MP3352	$109.00	$97.90	$86.90

24VDC TO 12VDC 6A CONVERTER

Supplies a regulated 12VDC output at up to 6 amps, more than enough for a portable DVD player, TV, LCD screen or any other 12 volt device.

- Supplied with 7 DC connectors

SPECIFICATIONS	MP3064
Input	11-28VDC
Output	Regulated 12VDC @ 6A
Lead Length	Input - 450mm, output - 1400mm
Case Size	138(L) x 60(W) x 32(H)mm

1 YEAR WARRANTY

Current (Max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
6A	MP3064	$86.90	$78.20	$69.50

Car Power Supplies

12VDC 1.2A CAR POWER ADAPTOR

Use your car's cigarette lighter socket to power or charge a variety of portable electronic devices such as mobile phones, personal audio players, handheld video game consoles and PDAs. Choose from 7 different DC voltages and 6 different adaptor tips.

SPECIFICATIONS	MP3678
Input Voltage	12VDC
Output Voltage	1.5, 3, 4.5, 6, 7.5, 9 or 12VDC
Output Current	1.2A
Cable Length	1.8m
Dimension	99(L) x 55(W) x 45(D)mm

1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2A	MP3678	$24.90	$22.40	$19.90

12VDC 3A CAR POWER ADAPTOR WITH USB OUTLET

Select a DC voltage and adaptor tip combination to power or charge a wide range of consumer electronics goods such as personal audio players, digital cameras, handheld gaming consoles, mobile phones, PDAs, PSP, etc. Many modern devices will also charge via the USB outlet.

SPECIFICATIONS	MP3671
Input Voltage	12VDC
Output Voltage	3, 4.5, 5, 6, 7.5, 9.5, 12VDC
Output Current	3A
Usb Output	5VDC, 1A
Power Indicator	LED
Dimensions	80(L) x 76.2(W) x 33(D)mm

1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	MP3671	$36.90	$32.90	$28.90

p.335 - in-car laptop chargers

12VDC 5A REGULATED CAR POWER ADAPTOR

This adaptor will power MP3 players, games, CD players, appliances or anything else that requires 5 - 12VDC at up to 5A. It's also fuse protected & includes four plug adaptors to suit most popular devices.

- Four plug adaptors
- Selectable voltage: 5, 6, 9 & 12VDC
- Fuse protected
- Lead length: 1400mm

1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP3478	$47.90	$42.90	$38.40

12VDC UNIVERSAL GPS CHARGER WITH DUAL USB OUTPUT

This very handy universal GPS charger not only works as a replacement for an original GPS charger, but having two USB outputs and higher output power offers a bonus - allowing you to charge both your GPS and your mobile phone (or other USB device) at the same time! With 2.1A available from each USB port, it has enough power for even the latest and greatest big screen GPS models, whilst still having enough power left over to charge a second USB device. Supplied with 1.2m USB charging lead and 6 replaceable connectors to suit most GPS models.

- Suitable for: TomTom, TomTom XL, Navman, Garmin, Magellan, Navigon, Falk, Mio, etc
- Input: 12-24VDC
- Output: 5VDC, 2.1A max per USB port (4.2A total)
- Dimensions: 100(L) x 42(W) x 25(H)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
1.2m	4.2A total	MP3676	$36.90	$32.90	$28.90

12 TO 5VDC POWER CONVERTER

Use this wiring kit to get rid of those unsightly and annoying power cables floating around your car dash that power your GPS, Dash cam or mobile device. Simply hardwire it to the 12V power fuse panel in your vehicle and plug the micro USB plug (micro USB adaptor also included) into the device you need to power. If your vehicle uses blade fuses then wiring can be made easier using our SF5115 or SF5125 blade fuse sockets, which patch into the fuse panel.

- Micro USB Plug (Mini USB adaptor included)
- 2.1A continuous current
- Cable length 1.3m

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.3m	MP3675	$24.90	$22.40	$19.90

IN-CAR CHARGER FOR DASH CAMERA AND GPS NAVIGATION

NEW

Convenient power for dash cameras and GPS units from your car. It provides a Mini-USB connector on a 3m cable, with an additional 2.4A USB charging port for you to keep your phone charged too! Works in cars or trucks with a voltage range of 10-30V, plugging straight into a spare cigarette lighter socket. Lightweight and powerful.

- Mini-USB 3m charging cable
- 2.4A USB charging port
- Cigarette lighter connection

SPECIFICATIONS	MP3683
Input Voltage	12 - 24V
Output	USB-A Socket: 2.4A Power Cord: 1.2A
Connector	Mini-USB
Cable Length	3m

Length	Cat.	Qty 1+	Qty 5+	Qty 10+
3m	MP3683	$22.90	$20.90	$17.90

USB - DC Power Leads

6 PLUG DC TO USB LEAD KIT

Handy DC to USB lead pack allows you to power up devices using 5V from a USB port. Includes 6 different size tips which include .35,1.5,1.7,2.1,2.5mm DC and 3.5mm Audio jack.

- Cable length: 1m

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	PP1985	$18.90	$16.90	$14.90

UNIVERSAL USB STEP-UP POWER CABLES

Absolute genius! This adaptor provides you with 9 or 12V output from a common USB socket (usually 5V output). Useful for powering all sorts of 12V devices direct from a computer or other USB charging source. 12V @ 1A rated output. Includes 7 standard DC tips to suit your device. Note - your USB port must be equipped for high current charging (2.1A or greater). Some USB ports are 500mA rated. The device will work perfectly, but will not be able to provide the full 1A current at 9V.

- USB 5V step-up to 12V converter
- Supplied with 7 standard DC tips
- Ideal for powering routers, radios, modems, car DVD players, etc

SPECIFICATIONS	PP1976	PP1978
Rated input	5VDC @ 2.5A	
Rated output	9VDC @ 1A	12VDC @ 1A
Operating temperature	-20° to 115°C	
Weight	41g	
Cable Length	700mm	

	Cat.	Qty 1+	Qty 3+	Qty 6+
9V Output	PP1976	$16.90	$14.90	$13.90
12V Output	PP1978	$16.90	$14.90	$13.90

Inverters:

Getting 230VAC to run small electrical appliances from your cars battery is easy with our range of general purpose inverters. We have models suitable for charging your laptop in the bush to running a microwave in a motor home. They have fan assisted cooling and electrical isolation for safety.

pick me Inverters

	Wattage	Input	Waveshape	Solar Regulator	Surge	Input Connection	Page
MI5128	150W	12V	Modified Sine		450W	Lighter Plug	390
MI5130	150W	12V	Modified Sine		450W	Lighter Plug	391
MI5131	200W	12V	Modified Sine		400W	Lighter Plug	390
MI5726	200W	12V	Pure Sine		400W	Heavy Duty Screw-down Terminals	392
MI5132	300W	12V	Modified Sine		1000W	Screw Terminals	391
MI5134	400W	12V	Modified Sine		1200W	Screw Terminals	391
MI5135	400W	24V	Modified Sine		1200W	Screw Terminals	391
MI5728	400W	12V	Pure Sine		800W	Heavy Duty Screw-down Terminals	392
MI5136	600W	12V	Modified Sine		1500W	Bolt Terminals	391
MI5720	600W	12V	Pure Sine	20A	1200W	Heavy Duty Screw-down Terminals	393
MI5138	800W	12V	Modifed Sine		2000W	Bolt Terminals	391
MI5140	1100W	12V	Modified Sine		2500W	Bolt Terminals	392
MI5722	1000W	12V	Pure Sine	30A	2000W	Heavy Duty Screw-down Terminals	393
MI5142	1500W	12V	Modified Sine		3500W	Bolt Terminals	392
MI5724	1500W	12V	Pure Sine	30A	3000W	Heavy Duty Screw-down Terminals	393
MI5144	2000W	24V	Modified Sine		4500W	Bolt Terminals	392
MI5718	2200W	24V	Pure Sine		4000W	Heavy Duty Screw-down Terminals	393

200W INVERTER WITH 4 USB OUTLETS

Great for taking on a quick road or camping trip to recharge your laptop, phone, or some other piece of tech that usually needs a mains outlet. This inverter provides four USB sockets, and two mains sockets, and a cigarette lighter socket to boot!

No fuss, just plug and play!

SPECIFICATIONS	MI-5131
Input Voltage	11-15VDC
Mains Output	200W Rated, 400W Peak
USB Ports	5VDC @ 4.2A (combination max)
Cigarette Lighter Socket	12VDC
AC Output	240VAC @ 50Hz Modified Sine Wave
Dimensions	236(W) x 78(D) x 42(H)mm
Cable Length	1m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
200W 12VDC + 4 x USB	MI5131	$119.00	$107.00	$95.00

automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

150W CUP POWER INVERTER WITH 4.2A DUAL USB OUTPUT

1 YEAR WARRANTY

Mains power in your vehicle has never been so convenient! Simply slip it into a spare cup holder, and plug in to a free cigarette lighter socket. You'll then have access to 150W of mains power, and dual 2.1A USB charging outlets, to keep everything charged and running. 450W peak power provides additional performance when required too. Perfect for laptop charging and small mains powered devices. Internal cooling fan and over-temp/over-current protection.

- Convenient mounting into cup holder
- 150W continuous mains power
- 2 x 2.1A USB charging outlets

SPECIFICATIONS	MI5128
Ouput power	150W
Ouput Power Peak	450W
AC Output voltage	240V
Output Wave form	Modified Sine Wave
DC Input Voltage	10-15V
Low Battery Shutdown	9.5±0.5V
High Battery Shutdown	>15V
Frequency	50Hz
No Load Draw	<0.5A
USB Output	2 X 5VDC @ 2.1A (each port), Total: 4.2A
Weight	339g
Cable Length	740mm
Dimensions	75(W) x 140(H) x 75(D)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	MI5128	$69.90	$62.90	$55.90

Compact Modified Sine Wave Inverters:

These convenient mains inverters are compact and easy to store. They're designed to provide you with basic mains-charging, laptop charging, and other low-power mains applications. They boast all the safety features you need like overload and input reverse polarity protection, and are plug and play via your vehicle or boat cigarette lighter / charging socket. Perfect for charging small appliances.

- Overload protection
- Input reverse polarity protection

MI5130

MI5132

MI5134

MI5135

MI5136

MI5138

SPECIFICATIONS	MI5130	MI5132	MI5134	MI5135	MI5136	MI5138
Output Power	150W (450W Surge)	300W (1000W Surge)	400W (1200W Surge)	400W (1200W Surge)	600W (1500W Surge)	800W (2000W Surge)
DC Input Voltage	10-15VDC			20-30VDC	10-15VDC	
AC Waveform	Modified Sine Wave					
AC Output	230VAC @ 50Hz					
USB Power Output	5VDC @ 2A (max)					
Low Battery Alarm	10.5±0.5V			21±1.0V	10.5±0.5V	
Low Battery Shut Down	10.0±0.5V			20±1.0V	10.0±0.5V	
High Battery Shut Down	15.5±1.0V			30±1.0V	15.5±1.0V	
No Load Current	<0.4A	<0.4A	<0.3A	<0.3A	<0.7A	<1.0A
Over Temp. Protection	60°C ± 5°C					
DC Input Fuse	15A	30A	40A	25A	2 x 30A	3 x 30A
Weight	740g	830g	850g	850g	1.16kg	1.5kg
Dimensions	171(D) x 105(W) x 60(H)mm	182(L) x 105(W) x 60(H)mm	182(L) x 105(W) x 60(H)mm	182(L) x 105(W) x 60(H)mm	230(W) x 150(H) x 75(D)mm	261(L) x 105(W) x 60(H)mm

Output Power	Input Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
150W (450W)	12VDC	MI5130	$69.90	$62.90	$55.90
300W (1000W)	12VDC	MI5132	$94.90	$84.90	$75.90
400W (1200W)	12VDC	MI5134	$99.90	$89.90	$79.90
400W (1200W)	24VDC	MI5135	$99.90	$89.90	$79.90
600W (1500W)	12VDC	MI5136	$159.00	$142.90	$126.90
800W (2000W)	12VDC	MI5138	$239.00	$209.00	$189.00

tech talk

What To Buy - Sine Wave Or Modified Sine Wave?

"Modified" sine wave is a crude approximation of the 240V waveform, with square wave components in it. Many appliances are OK with this. Typically these are:

- All incandescent lighting
- Most switchmode power supplies
- Most TVs, VCRs CD/DVD players
- Small power tools
- Fax machines
- Some audio equipment
- Computers (most)
- All incandescent lighting
- Most switchmode power supplies

Sine wave is closer to mains and those inverters are much more efficient. Most appliances work OK with the lower cost modified sine.

Sine wave inverters are best for:

- **Electric clocks**
- Sensitive equipment
- Electronic weighing machines
- Mains powered PA equipment
- All other TVs
- Plug pack powered equipment
- Anything where you want to get the most out of a battery charge

For next day delivery, or Click and Collect, see page 5

High power modified sinewave inverters

Get power on the GO! These heavy duty Modified Sine Wave Power Inverters connects directly to a 12 Volt DC battery to power hand held power tools, televisions, gaming consoles, home electronics and small appliances in your car, truck, boat or RV. The dual 2.1 amp USB ports allow you to charge your cell phones, iPhone®, iPad®, or any other USB product. The artificial cooling design keeps the heavy duty aluminium casing cool. This unit also features an LCD display, which displays the output wattage or input voltage and battery level. With this inverter, you will never be left without power when you need it! Comes with a convenient 2-year warranty!

- LCD Display
- Dual USB port
- Remote control
- Thermal fan
- Short circuit / Overload protection
- Over temperature protection
- Under voltage / Over voltage protection

MI5144

2 YEAR WARRANTY

SPECIFICATIONS	MI5140	MI5142	MI5144
AC Waveform		Modified Sine Wave	
DC Input Voltage		10.5-15.5VDC	
Output Power	1100W (2200W Surge)	1500W (3000W Surge)	2000W (4000W Surge)
AC Output		230V @ 50Hz	
USB Power Output		5VDC @ 2.1A (shared, Dual Port)	
Over Voltage Protection		16.0±0.3V	
Over Voltage Recovery		13.5±0.2V	
Under Voltage Protection	10.5±0.3V	10.5±0.3V	10.3±0.3V
Under Voltage Recovery		12.0±0.3V	
Efficiency at Normal Power	>=82%	>=84%	>=85%
Standby Current	<0.6A	<0.6A	<0.9A
Overload Protection	1250W±50W, Shut down	1650W±50W, Shut down	2200W±100W, Shut down
Short Circuit Protection		Shut down	
Accessories		Battery Cables, Fuse, Remote Control	
Weight	2.11kg	2.3kg	3.26kg
Dimensions	274(L) x 194(W) x 88(H)mm	326(L) x 194(W) x 88(H)mm	366(L) x 194(W) x 88(H)mm

Power Output	Voltage Input	Cat.	Qty 1+	Qty 3+	Qty 6+
1100W (2200W)	12VDC	MI5140	$319.00	$279.00	$249.00
1500W (3000W)	12VDC	MI5142	$459.00	$409.00	$359.00
2000W (4000W)	12VDC	MI5144	$629.00	$559.00	$499.00
Optional Wired Remote Control (On / Off)	NEW	MI5149	$33.90	$29.90	$26.90

Inverters - Pure Sine Wave Range

These two models are designed to handle a high peak power and surge to power large devices that have high initial current demands. They also feature over and under voltage protection, and high temperature protection that switches the inverter off automatically, and then switches back on again once suitable operating levels return. There is a USB port with 2.1A fast charging output to charge your Smartphone, Tablet and other USB devices. All built within a sturdy housing, design is built to last.

SPECIFICATIONS	MI5726	MI5728
Output Power Continuous	200W	400W
Output Power Peak	270W (10min)	450W (10min)
Output Power Surge	400W (1sec)	800W (1sec)
Current In Standby Mode	<750mA	<1000mA
Input Voltage	10.5-15.3VDC	10.5-15.3VDC
Output Wave Form	Pure sine wave	Pure sine wave
Efficiency	>86%	>86%
Output Regulation	±5%	±5%
Output Frequency	50Hz	50Hz
USB Output	5VDC 2.1A	5VDC @ 2.1A
Dimensions	189(L) x 100(W) x 60(H)mm	213(L) x 100(W) x 60(H)mm
Weight	702g	870g
Input Connection	Removable alligator clamps	Heavy duty screw terminals
Output Overload	Beeps 3 times & LED flashes	Beeps 3 times & LED flashes
Thermal Alarm & Shutdown	>70°C	>70°C
Battery Low / High Shutdown	10.5VDC / 15.3VDC	10.5VDC / 15.3VDC

MI5728

POWERTECH

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 3+	Qty 6+
200W	12VDC	MI5726	$239.00	$214.90	$190.90
400W	12VDC	MI5728	$339.00	$299.00	$269.00

Inverters - Pure Sine Wave With Built-In Solar Regulators

A truly versatile inverter range that is perfect for off-grid solar power systems in caravans, yachts, holiday houses, outback shed, and any standard application where inverters are used. The built-in solar charge controller means you can connect solar panels (without regulator) directly to the inverter to recharge suited batteries or battery banks. This is achieved by a single battery connection to the inverter that allows a charge and draw simultaneously or independently. The pure sine wave AC output makes them suitable to power most mains appliances within their continuous power output. Features include reverse polarity, battery over/under voltage, overload and over temperature protection as well as 2 x 230VAC mains outlets, two USB ports and an LCD on the unit and a remote control that provides important information such as Battery Voltage, DC Input Current, Output Power, Battery Level and DC Charging Current.

POWERTECH

1 YEAR WARRANTY

For suitable solar panels we recommend 2 x ZM9059 12V 150W panels in series

REAR SHOT

SUPPLIED WITH REMOTE

MI5724

SPECIFICATIONS	MI5720	MI5722	MI5724
Output Power Continuous	600W	1000W	1500W
Output Power Surge	1200W	2000W	3000W
Standby Current	750mA	750mA	750mA
Input Voltage	12VDC	12VDC	12VDC
Output Voltage	230VAC	230VAC	230VAC
Output Wave Form	Pure sine wave	Pure sine wave	Pure sine wave
Efficiency	>90%	>90%	>90%
Output Regulation / Frequency	±3% / 50Hz	±3% / 50Hz	±3% / 50Hz
2 X USB Ports Output	5VDC, 1A + 2A	5VDC, 1A + 2A	5VDC, 1A + 2A
Battery Connection	Heavy duty screw terminals	Heavy duty screw terminals	Heavy duty screw terminals
Solar Charge Controller Load Current	20A max	30A max	30A max
Protections	Reverse polarity, battery over/under voltage, output short circuit, overload, over temperature		
Dimensions	297(L) x 204(W) x 102(H)mm	379(L) x 204(W) x 102(H)mm	429(L) x 204(W) x 102(H)mm
Weight	2.4kg	3.2kg	3.6kg

			Cat.	Qty 1+	Qty 3+	Qty 6+
600W	12VDC	20A Regulator	MI5720	$459.00	$409.00	$359.00
1000W	12VDC	30A Regulator	MI5722	$679.00	$609.00	$539.00
1500W	12VDC	30A Regulator	MI5724	$909.00	$809.00	$719.00

Inverters - Pure Sine Wave Range For Truck (24V) & High Current

2200 WATT 24VDC TO 230VAC PURE SINE WAVE INVERTER WITH 30A SOLAR REGULATOR

1 YEAR WARRANTY

This fantastic quality pure sine wave inverter will run all sorts of appliances. Pure sine wave mirrors traditional grid power, providing a more stable power source. But this is so much more than just an inverter. It features a fully integrated 30A solar charger! That means you can connect your solar panels directly to this unit, for a total solar / charge / mains power solution - perfect for off-grid or travel. Designed to run using a 24V battery bank, it's suitable for use with up to 500W of solar panels. With the handy included remote control, you can easily monitor functions while the main unit is tucked away somewhere practical. The remote displays solar charge status, battery charge or discharge status, battery charge level, power output level, and more. The dual mains outlets are very handy, as are two USB charging outlets for all those recharging needs! This is a very simple to install solution that will provide years of reliable service.

- Built-in 30A PWM solar controller with remote control
- Dual mains socket
- Dual USB 1A+2A
- Output Voltage: 5VDC
  Maximum Output Current: 3A Combined
- Operating Temperature: -20°C - 50°C
- Dimensions:
  400(D) x 200(W) x 100(H)mm
- Weight: 4.7kg

SPECIFICATIONS	MI5718
Battery Requirements	Battery Voltage: 18-31VDC Battery Capacity: ≥65Ah Recommended Maximum Input Current: 120A Standby Current: ≤0.75A
Solar Charge Input	PV Voltage: 32-45VDC Maximum Solar Power: 500W Maximum Solar Current: 30A Solar Charge Controller Type: PWM
AC Specifications	Voltage Output: 230VAC Frequency: 50Hz Power: 2200W Max Peak Power: 2500W @ 20 Minutes Surge Peak Power: 4000W @ 1 Second Voltage Harmonics: ≤5% Conversion Efficiency: ≥90%

POWERTECH

		Cat.	Qty 1+	Qty 3+	Qty 6+
2200W	24VDC	MI5718	$1,099.00	$989.00	$879.00

For next day delivery, or Click and Collect, see page 5

Wind Turbine Generators

When solar panels started to come down in price, wind turbine generators ceased to remain competitive! Wind turbines, however, are still a great option where you need a lot of generating power and don't have room for large solar arrays. Indeed, the two generators below are cheap compared to large solar panel arrays. They are very rugged and made to marine salt water corrosion resistance specifications and will last a long time.

Both units are warranted for 3 years from faulty materials or workmanship.

Mounting mast and guying hardware available separately.

**Note: 2kW not stocked at all stores but can be specially ordered. Call store for details.*

Check out our website for full details and specs on these great units.

3 YEAR WARRANTY

Voltage	Peak Power	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24VDC	500W	MG4550	$849.00	$759.00	$679.00
Spare Parts					
Spare Power Meter suit MG4550	NEW	MG4565	$119.00	$106.90	$94.90
Internal Controller Spare suit MG4550		MG4553	$319.00	$279.00	$249.00
Display Box Spare suit MG4550		MG4555	$229.00	$199.00	$179.00
Nosecone Spare suit MG4550		MG4551	$28.90	$25.90	$22.90
Blades Spare suit MG4550		MG4554	$289.00	$259.00	$229.00
Alternator Spare suit MG4550		MG4556	$369.00	$329.00	$289.00
RS1 Resistance Wire Suit MG4550		MG4561	$2.30	$2.00	$1.80
Voltage	**Peak Power**	**Cat.**	**Qty 1+**	**Qty 2+**	**Qty 4+**
48VDC	2000W	MG4552*	$3,349.00		
Spare Parts					
Nosecone Spare suit MG4552		MG4557	$79.90	$71.90	$63.90
Blades Spare suit MG4552		MG4559	$949.00	$849.00	$759.00
Internal Controller Spare suit MG4552		MG4558	$949.00	$849.00	$759.00

tech talk — When To & When Not To Use Inverters

We DO NOT recommend that you use these products to operate the following: FRIDGES, AIR COMPRESSORS, AIR CONDITIONERS

An inverter is a device which converts 12 or 24VDC into 240VAC. The 240VAC generated is as lethal as the power in homes, and should be treated with the same respect. Inverters can be easily damaged, and connecting the input voltage terminals the wrong way around on the battery can damage the unit - be careful!!

- **Appliances most suitable for connection include:** Most power tools, lights, most TVs, video recorders / players, most computers, fax machines and most audio equipment.
- **Fluorescent lights can give a highly inductive load on start up which can damage inverters. Appliances NOT suitable include:** Electric blankets, toasters, hair dryers, irons, radiators and heavy power tools (large angle grinders, circular saws etc.)

Inverters will generally drive inductive loads such as electric motors, but only if the startup current is not high. Generally high startup current situations are when the motor is permanently coupled to a load such as a refrigeration or airconditioner compressor (Imagine the compressor at rest just before top dead centre you can easily realise the start up load on the motor!). Many other motors such as in drills, small angle grinders, buffers etc. start up under virtually no load and this is usually OK for the inverter provided the tool is within the inverter rating.

It needs to be pointed out that one of the major differences between a domestic power point and inverter is that the source impedance of a power point is very low compared to the inverter. This is why inverters have trouble with appliances with high start up currents and a domestic power point does not. Another thing that must be remembered is the special case of fluorescent lights with ballast chokes in them (by far the most common type). Manufacturers of fluoro lights assume that they are just going to be installed to a normal 240V 50Hz sine wave supply. They are required to supply a product that does not overly distort the mains waveform. They generally comply with this by installing a, say, 3.3μF non polarised capacitor accross the mains/neutral supply inside the housing of the lamp fitting. This is called a power factor correction capacitor. This seems to work OK for a sine wave supply from a low source impedance. When you drive such a device with modified sine wave 240V power, different things start to happen. The power factor correction capacitor presents a much greater load to a modified sine wave signal (which is a complex collection of high and low frequencies) than it would if it was a sine wave. The bottom line is to reduce this capacitor to about 0.47μF or take it out completely. Inverters are generally OK then. It is also possible for an inverter to be damaged by the surges in current generated when using standard flourescent starters. This can be prevented by replacing the starter with an electronic starter.

Inverter Generators

2KW SINE WAVE INVERTER GENERATOR

Cheap petrol generators can produce very dirty mains power - a disaster for precision electronics or any sensitive equipment. This unit comprises of a 4-stroke petrol engine, a low voltage electrical generator, and a pure sine wave inverter to give you clean mains power. This method provides a level of stability not possible in cheaper units. It's also intelligent, with an auto-throttling switch to increase and decrease motor speed to compensate for power demand. Of course you can override this to provide more stable power, at the expense of efficiency. With the addition of a parallel-link cable, you can stack two compatible units together. Join it with another 2kW unit for 4kW total output. This stacking ability provides the ultimate in flexibility when you need a lot of power. A full house of protections including overload and low oil automatic shutoff. A simple pull start keeps things simple, making every start a breeze. Housed in a rugged moulded case with integrated carry handle.

- Pure sine wave output
- Parallel stacking option
- Rugged and reliable
- 106cc, single cylinder, air cooled, 4-stroke petrol

Note: Not regularly stocked in all retail outlets. Please call ahead to verify stock availability and/or place a customer order.

An extensive range of spare parts are available online or by special order in-store

	Cat.	Qty 1+		
2kW	MG4508	$999.00		
Accessories	**Cat.**	**Qty 1+**	**Qty 2+**	**Qty 4+**
Parallel Link Cable	MG4509	$48.90	$46.45	$44.00

SPECIFICATIONS	MG4508
Max Engine Power	2.2kW @ 4800RPM
Fuel Tank Capacity	3.7L
Fuel Consumption	420g/kWh
Running Time	3.8 hours at full power
Noise	91dB
Dimensions	532(L) x 300(D) x 461(H)mm
Weight	23kg (dry)

1 YEAR WARRANTY

Powertech monocrystalline solar panels:

These high performance monocrystalline solar panels are much smaller, thinner, higher in efficiency and more affordable than our previous models. The manufacturing process for this range uses 36 pieces of 156x156mm A-grade solar cells cut into defined sizes with 4 grid lines, which provides excellent performance under low light environments. Each panel is designed to withstand harsh environmental conditions with a durable anodised aluminium frame and 3.2mm low iron tempered glass. The glass is anti-reflective and has a hydrophobic effect to resist dirt and dust, improving light absorption thereby preventing any needless power loss. The junction box and bypass diodes stops the panel from overheating and suffering from the "hot spot effect". The entire range is easier to install with minimal ongoing maintenance and compatible with industry standard inverters and mounting systems.

25 YEAR LIMITED WARRANTY

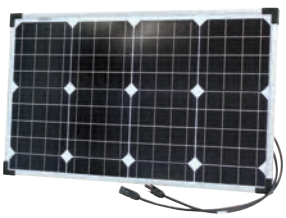
All Powertech monocrystalline solar panels are covered by a 25 year limited warranty. This warranty covers the panels for defects in construction and manufacturing for a period of 5 years, and warrants that the electrical output will remain above 80% of its original rated output for a period of 25 years.

POWERTECH

25 YEAR LIMITED WARRANTY

40W

ZM9056



80W

ZM9057

120W

ZM9058

150W

ZM9059

SPECIFICATIONS	ZM9056	ZM9057	ZM9058	ZM9059
Maximum Power (Pmax)	40W	80W	120W	150W
System Output Voltage	12V	12V	12V	12V
Open Circuit Voltage (Voc)	21.5V	21.6V	21.7V	22.4V
Short Circuit Current (Lsc)	2.5A	4.90A	7.08A	8.66A
Voltage At Max Power (Vmp)	17.2V	17.6V	17.6V	18.1V
Current At Max Power (Imp)	2.33A	4.55A	6.8A	8.31A
Termination	MC4 Plug	MC4 Plug	MC4 Plug	MC4 Plug
Cable Length	900mm	900mm	900mm	900mm
Dimensions	664 x 408 x 25mm	760 x 664 x 25mm	1179 x 664 x 35mm	1479 x 664 x 35mm

Voltage	Wattage	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	40W	ZM9056	$119.00	$112.90	$106.90
12V	80W	ZM9057	$219.00	$207.90	$196.90
12V	120W	ZM9058	$299.00	$279.00	$269.00
12V	150W	ZM9059	$359.00	$339.00	$319.00

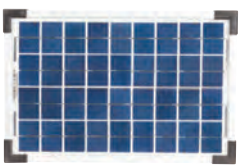
Portable Solar Panels

HIGH EFFICIENCY MONOCRYSTALLINE SOLAR PANEL CHARGERS

Quality solar panels with high efficiency and smaller footprint compared to our regular monocrystalline models. An easy way to keep your 12V batteries topped up and ready to go on your caravan, farm equipment, the spare car, or on the shed out the back. The dust and weather resistant panel features a robust frame, and is supplied with 3m long leads terminated with battery clips. Each version is fitted with a blocking diode, so they are suitable for direct connection to your battery as a trickle charger (take note of the minimum battery capacity), or as a low current charger to replace a load or current drain on the battery. A charge controller such as AA0348 is recommended on the 10W and 20W versions when there is not enough current drain to prevent over-charging of the battery.

- 5 year warranty against materials and workmanship, and 20 year warranty for power output no less than 80%

ZM9051



ZM9050

ZM9052

SPECIFICATIONS	ZM9050	ZM9051	ZM9052
Maximum Power (Pmax)	5W	10W	20W
Rated Voltage	12V	12V	12V
Voltage At Pmax (Vmp)	17.4V	17.4V	17.4V
Current At Pmax (Imp)	290mA	580mA	1.16A
Open Circuit Voltage (Voc)	21.8V	21.8V	22.0V
Short Circuit Current (Isc)	310mA	610mA	1.21A
Min. Battery Capacity	50Ah	100Ah	200Ah
Weight	0.67kg	1.15kg	2.5kg
Dimensions	251(W) x 205(H) x 18(D)mm	385(W) x 253(H) x 30(D)mm	520(W) x 360(H) x 30(D)mm

5 YEAR WARRANTY

Voltage	Wattage	Amps (Max.)	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	5W	290mA	ZM9050	$36.90	$34.90	$32.90
12V	10W	580mA	ZM9051	$59.90	$56.90	$53.90
12V	20W	1.16A	ZM9052	$94.90	$89.90	$84.90

For next day delivery, or Click and Collect, see page 5

Folding Solar Panels

POWERTECH 12V 100W FOLDING SOLAR PANEL WITH 5M LEAD

If you're looking for a convenient and portable power solution, the Powertech 12V 100W Folding Solar Panel is the perfect choice! It is an entire solar power system incorporated into one compact package. Made with the most efficient monocrystalline solar cells on offer, this unit weighs a mere 8kgs. This product includes two 50 Watt Monocrystalline Solar Panels, one 10 Amp PWM solar Charge Controller with LED indicators for power regulation, 5m extension lead with Anderson® connectors, additional extension leads (Anderson® to eye terminals and Anderson® to Alligator Clips) for easy connections and a heavy duty bag for safe portability. If you are looking for a portable solar solution and permanent mounting is not for you, then this the perfect kit for you! Equipped with a carrying handle, durable fold out legs that allow for varying degrees of tilt, and industry standard latches this solution with be your new best friend for on the go!

- Adjustable, corrosion-resistant aluminium stand and frame with heavy duty handle and latches for longevity
- 12V 10A PWM Solar charge controller compatible with gel, sealed, and flooded batteries
- Portability with Easy carry case
- Excellent value with various types of Battery leads (Eye terminals, Alligator clips, Anderson) provided

SPECIFICATIONS	ZM9174
Type	Mono Crystalline Solar Cells
Peak Power	100W
Rated Voltage	12V
Voltage @ Peak Power	17.8V
Current @ Peak Power	5.62A
Open Circuit Voltage	22.50V
Short Circuit Current	6.18A
Panel Dimensions	665(L) x 1070(W) x 35(H)mm (open) 665(L) x 545(W) x 75(H)mm (closed)
Gross Weight	8kgs

Voltage	Wattage	Lead	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	100W	5m	ZM9174	$289.00	$269.00	$259.00

POWERTECH 12V 160W FOLDING SOLAR PANEL WITH 5M LEAD

If you're hungry for power yet looking out for a portable power solution, the Powertech 12V 160W Folding Solar Panel is the answer! A comprehensive solar power system made with top grade monocrystalline solar cells, this unit will bail you from most power crisis. This product includes two 80 Watt Monocrystalline Solar Panels, one 10 Amp PWM solar Charge Controller with LED indicators for power regulation and USB port, 5m extension lead with genuine Anderson® connectors, additional extension leads (Anderson® to eye terminals and Anderson® to Alligator Clips) for easy connections and a heavy duty bag for safe portability. If you are looking for a portable solar solution with fast and easy installation then this the perfect kit for you! Equipped with a carrying handle, durable fold out legs that allow for varying degrees of tilt and industry standard latches this is the ultimate solution!

- Adjustable, corrosion-resistant aluminium stand and frame with heavy duty handle and latches for longevity
- 12V 10A PWM Solar charge controller compatible with gel, sealed, and flooded batteries
- Portability with Easy carry case
- Excellent value with various types of Battery leads (Eye terminals, Alligator clips, Anderson) provided

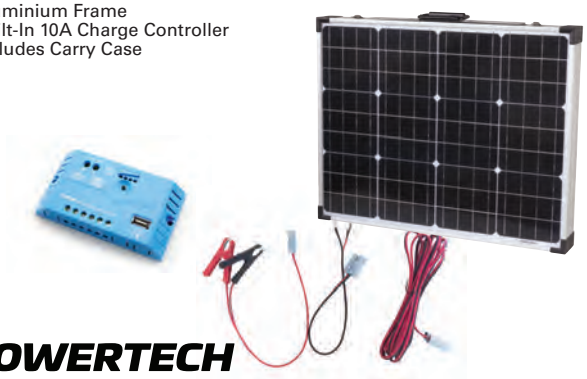
SPECIFICATIONS	ZM9178
Type	Mono Crystalline Solar Cells
Peak Power	160W
Rated Voltage	12V
Voltage @ Peak Power	18.0V
Current @ Peak Power	8.88A
Open Circuit Voltage	22.30V
Short Circuit Current	9.19A
Panel Dimensions	1335(W) x 759(H) x 35(D)mm (open) 665(W) x 759(H) x 75(D)mm (closed)
Gross Weight	15.5 kgs

Voltage	Wattage	Lead	Cat.	Qty 1+
12V	160W	5m	ZM9178	$459.00

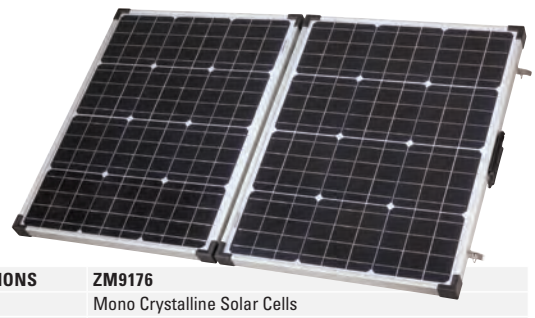
12V 120W FOLDING SOLAR PANEL WITH 5M LEAD

Unfolds in seconds to provide up to 10A charging current in full sun. Integrated stands allow positioning with a premium angle to the sun. It provides a built-in charge controller and 5m lead to charge your battery without any additional hardware. When you're done, fold it back in half and pack it away. The solid aluminium frame is lightweight, yet strong. It will provide years of faithful service.

- Aluminium Frame
- Built-In 10A Charge Controller
- Includes Carry Case



POWERTECH



SPECIFICATIONS	ZM9176
Type	Mono Crystalline Solar Cells
Peak Power	120W
Rated Voltage	12V
Voltage @ Peak Power	17.6V
Current @ Peak Power	6.8A
Open Circuit Voltage	21.6V
Short Circuit Current	7.08A
Panel Dimensions	664(L) x 1270(W) x 35(H)mm (open) 664(L) x 631(W) x 75(H)mm (closed)
Gross Weight	12kg

Voltage	Wattage	Lead	Cat.	Qty 1+
12V	120W	5m	ZM9176	$339.00

solar panel kits

PORTABLE POWER CENTRE AND 40W SOLAR PACKAGE

NEW

Incorporating a 42Ah multi-function power centre and a 40W monocrystaline solar panel, this package will provide a standalone power system for travelling or camping. The MB3748 Portable Power Centre provides a combination of 12VDC, 240VAC, and 5VDC USB power from the internal battery, ideal for powering a huge variety of equipment. Coupled with the ZM9056 12V 40W Solar Panel for daytime recharge, the power centre can be recharged in full on a daily basis (depending on sun levels).

SAVE 15% ON THIS PACKAGE DEAL!

	Cat.	Qty 1+
	ZM9345	$339.00

LARGE PORTABLE SOLAR POWER KIT

Power the 12V Fridge/Freezer, LED lighting, entertainment system, air pumps, etc. at the campsite with these portable power solutions. Position the folding solar panel to get the most sunlight for the best charge. See individual parts for warranty details. Two packages to choose from depending on your power needs.

- See individual parts for warranty details

Kit Includes:

1 x Battery Box with Voltmeter and USB Charge HB8502
1 x 1,000W Pure Sine Wave Inverter & 20A Regulator MI5722
1 x 12V 100Ah AGM Deep Cycle Battery SB1682
1 x 120W Folding Solar Panel & 5m Lead ZM9176

SAVE 15% ON THIS PACKAGE DEAL!

	Cat.	Qty 1+
	ZM9341	$1,349.00

Chris Andrews likes to

think. possible.

"In the next 5 years i expect this 360 degree camera to improve the field of view. Then, while it can already play in virtual reality, I expect to be able to open the videos and edit them directly in virtual reality using augmented reality editing controls and functions."

Shop online for your Jaycar products and check out our latest products and promotions on our website.

Visit Our Online Store: www.jaycar.co.nz

Portable Solar Chargers

10W SOLAR MOBILE CHARGER WITH USB OUTPUT AND 1M LEAD

NEW

1 YEAR WARRANTY

Designed to keep your smartphone, tablet, and other USB charged gadgets running for longer when you're on the go, camping, or away from mains power. The lightweight and flexible charger includes two thin mono-crystalline silicon solar panels to provide up to almost 2A at 5V in full sun. This means you should be able to charge most phones in less than 4 hours in full sun. It is water resistant, easy to clean, and measures 349 x 265mm when open and 265 x 175mm folded for compact stowage. The mounting holes allow you to conveniently tie it onto a backpack, tent, etc. Supplied with a 1m USB lead.

- Lightweight, thin, foldable
- Regulated USB output
- Water resistant

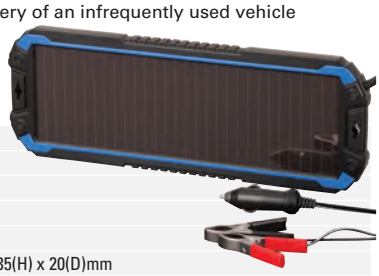
SPECIFICATIONS	MB3595
Power	10W
Max. Voltage Output (Vmp)	5V
Max. Current Output (Imp)	1920mA
Cells	Monocrystalline Silicon
Dimensions	Folded: 155(W) x 255(H)mm Unfolded: 325(W) x 255(H)mm

	Cat.	Qty 1+
USB	MB3595	$56.90

12V BATTERY SOLAR TRICKLE CHARGER 1.5W

Perfect for keeping your boat, classic car, tractor, or any other infrequently used vehicle battery topped up. It includes battery clips and a cigarette lighter socket for simple connection, which a discharge diode prevents any drain on your battery at night. Provides up to 1.5W charging power, which is plenty to prevent idle discharge of your expensive vehicle battery.

- Ideal for maintaining the battery of an infrequently used vehicle
- Cigarette lighter / battery clip option
- No configuration required



SPECIFICATIONS	MB3504
Power Rating	1.5W
Solar Panel	17.5V
Current	107mA
Weight	470g
Dimensions	125(W) x 335(H) x 20(D)mm
Cable Length	2.5m

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3504	$33.90	$29.90	$26.90

SOLAR WATER PUMPS

Run your outdoor aquarium, garden pond or water feature from the sun, eliminating the need for wiring or the safety aspects of electricity near water. This mutli-application Powertech solar powered water pump comes with its own solar panel, cable and pump assembly ready to go. A convenient functional solution which is simple to clean and move to different locations.

SPECIFICATIONS	ZM9200	ZM9202
Operating Voltage	7V	12V
Power Consumption	0.9W	2.4W
Flow Rate	140 litres/hour	200 litres/hour
Outlet Size	8mm	8mm
Cable Length	2m	2m
Dimensions		
Solar Panel	188(L) x 155(W) x 25(H)mm	308(L) x 166(W) x 25(H)mm
Pump Assembly	42(L) x 39(W) x 28(H)mm	42(L) x 39(W) x 28(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
0.9W	ZM9200	$56.90	$50.90	$44.90
2.4W	ZM9202	$94.90	$84.90	$75.90

For next day delivery, or Click and Collect, see page 5

Flexible Solar Panels

12V SEMI FLEXIBLE SOLAR PANEL WITH DF TECHNOLOGY

A lightweight and versatile monocrystalline solar panel designed for RV, marine and camping applications. The advanced DF cell technology produces high conversion efficiency up to 20%, giving much more power for a smaller footprint, compared to SP cell type panels. The DF cell, identified by its 21 bus bars, is also flexible up to 30 degrees. This means you can mount the panel on a curved surface such as a boat deck or curved rooftop on your car, caravan, boat, etc.

Thanks to its lightweight design, 2.5mm thickness, and IP65 weatherproof rating, it is perfect for portable applications as well. The mounting holes allow you to secure it using rope for temporary applications or screws for permanent mounting. The short leads with MC4 PV connectors also make it easy to disconnect when you need to pack up and stow away for transport.

A blocking diode is built into the panel to prevent discharging a battery at nighttime, but we recommend you add a solar charge regulator to charge batteries more effectively.

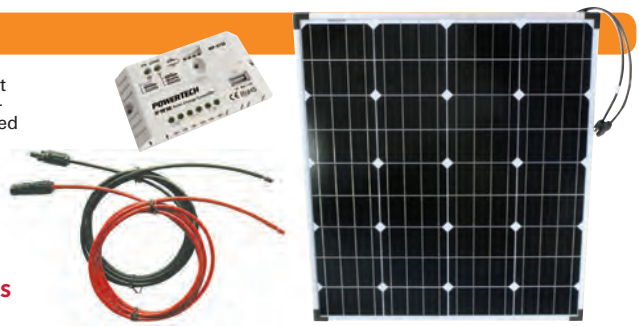
- Maximum recommended bending degree: 30°

SPECIFICATIONS	ZM9157	ZM9158	ZM9159
Solar Cell	Monocrystalline	Monocrystalline	Monocrystalline
Max. Power (Pmax)	50W (±5%)	100W (±5%)	150W (±5%)
Open Circuit Voltage (Voc)	20.5V	20.5V	20.5V
Short Circuit Current (Lsc)	3.55A	7.1A	10.65A
Max. Working Voltage (Vmp)	18V	18V	18V
Max. Working Current (Imp)	2.94A	5.89A	8.83A
Standard Test Condition:	AM1.5, 1000W/m2, 25°C	AM1.5, 1000W/m2, 25°C	AM1.5, 1000W/m2, 25°C
Operating Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Dimensions	690(W) x 520(H) x 2.5(D)mm	690(W) x 940(H) x 2.5(D)mm	690(W) x 1350(H) x 2.5(D)mm

	Cat.	Qty 1+
50W	ZM9157	$169.00
100W	ZM9158	$339.00
150W	ZM9159	$499.00

Recreational Solar Package Deals

A range of affordable DIY solar package deals from small entry level for light weight camping to a serious system to provide sufficient power for your off-road or boating get-away. Most of the packages come with everything needed to set up the complete power system with minimum wiring. See individual components for full details and warranty information in the Power section.



80 WATT FIXED SOLAR STANDARD PACKAGE

Includes:

- 1 x 80W Monocrystalline Solar panel — Cat ZM9057
- 1 x 12V 8A charge controller — Cat MP3750
- 2 x Female PV connector — Cat PS5100
- 2 x Male PV connector — Cat PP5102

Note: See individual products for warranty details.

SAVE 20% ON THIS PACKAGE DEAL!

Voltage	Wattage	Type	Cat.	Qty 1+
12V	80W	Fixed	ZM9300	$229.00

150 WATT FIXED SOLAR PANEL PACKAGE

Includes:

- 1 x 150W monocrystalline solar panel — Cat ZM9059
- 1 x 12V 20A PWM charge controller — Cat MP3752
- 2 x female PV connector — Cat PS5100
- 2 x male PV connector — Cat PP5102

SAVE 20% ON THIS PACKAGE DEAL!

MORE INFORMATION... Individual solar products and hardware are featured elsewhere in our power section

Note: See individual products for warranty details.

Voltage	Wattage	Type	Cat.	Qty 1+
12V	150W	Fixed	ZM9301	$369.00

300 WATT FIXED SOLAR PANEL PACKAGE

Includes:

- 2 x 150W monocrystalline solar panels — Cat ZM9059
- 1 x 30A PWM charge controller — Cat MP3754
- 2m Premade PV Power Cable with MC4 Socket, to Bare End — Cat WH3123
- 2m Premade PV Power Cable with MC4 Plug, to Bare End — Cat WH3124
- 1 x 2 PV sockets to 1 PV plug — Cat PS5110
- 1 x 2 PV plugs to 1 PV socket — Cat PS5112

SAVE 20% ON THIS PACKAGE DEAL!

Voltage	Wattage	Type	Cat.	Qty 1+
12V	300W	Fixed	ZM9306	$679.00

Solar Panel Mounting Hardware

UV STABILISED SOLAR SYSTEM POWER CABLE - IP RATED

Very tough cable, specifically for the rigours of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimise corrosion. Use with our PV connectors for complete environmental protection.

100 METRE ROLL

SPECIFICATIONS	WH3121	WH3122
Current(A)	58A	76A
Dia(mm)	4mm sq.	6mm sq.
Conductor Material	Tin plate copper, Class 5	
Insulation Material	XLPO	
Rated Voltage	1000VDC	
Temperature Range	-40 to + 125°C	
TUV Certification	2 PfG 1161/01.06	

	Cat.	Per Metre	1+ Roll	5+ Rolls
4.0mm²	WH3121	$5.90	$519.00	$445.00
6.0mm²	WH3122	$9.70	$855.00	$729.00

WATERPROOF SOLAR POWER "PV" CONNECTORS

IP67 rated for maximum environmental protection, these photovoltaic (PV) system connectors are ideally suited to harsh installations such as solar panel arrays and other permanent outdoor applications. When matched with our solar power cables WH3120 & WH3122, you can leave your cabling out in the open with the knowledge that you will never have a bad connection or an oxidised power cable. The panel mounting & in-line connectors suit a wide range of system applications:

Assembly Tool: TH1930

Suitable crimping tools: TH1834/TH2000

- Pin dimension 4mm
- Tin plated copper contacts
- Contact resistance <5mΩ
- -40°C to +90°C
- IP67 rated
- Housing material PPO

PS5100

TUV CERTIFIED

SPECIFICATIONS	ALL MODELS
Rated Voltage	1000VDC
Rated Current	30A at 70°C. 25A at 85°C
Contact Resistance	<5 milliohms
Temperature Range	-40 - 90°C
TUV Certification	2 PfG 1161/01.06

Size	Cat.	Qty 1+	Qty 10+	Qty 50+
Female Inline	PS5100	$9.00	$7.90	$6.90
Male Inline	PP5102	$9.00	$7.90	$6.90

MC4 SELF LOCKING BRANCH CONNECTORS

NEW

A MMF and FFM pair of locking branch connectors for solar installations. Allows parallel connection of solar panels.

- 1 MMF and 1 FFM cable connectors
- IP rated, long lasting UL certified
- Corrosion-resistant connectors

SPECIFICATIONS	PT4590
Rated Current	25A
Pin Dimensions	ø4.0mm
Contact	Copper, Tin Plated
Degree of Protection	IP6, UL Certified
Temperature Range	-40°C - +85°C
Weight	56g (each)
Dimensions	42(W) x 20(H) x 110(D)mm (each)

	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	PT4590	$22.90	$20.90	$17.90

PREMADE PV POWER CABLE WITH MC4 CONNECTOR WITH BARE END

NEW

At one end of the 2m cable is a crimped PV MC4 socket, which saves you from having to crimp on your own. The other end is a bare tinned wire to connect to your charge controller or other solar hardware.

- 6mm² (10AWG) cable

Type	Length	Cat.	Qty 1+	Qty 10+	Qty 50+
Male	2m	WH3124	$16.90	$14.90	$13.90
Female	2m	WH3123	$16.90	$14.90	$13.90

SOLAR PANEL 'Y' LEADS

Used for connecting the output of two solar panels in parallel or connecting multiple panels in an array. Waterproof and UV resistant.

- Pin dimension 4mm
- Contact resistance <5m ohm
- -40°C to +90°C
- TUV certified.
- Tin plated copper contacts
- IP67 rated
- Housing material PPO
- Both are 300mm long.

2 SOCKETS TO 1 PLUG

Generally used on the positive pole of the panel.

PS5110

2 PLUGS TO 1 SOCKET

Generally used on the negative pole of the panel.

PS5112

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Sockets to 1 Plug	PS5110	$24.90	$22.40	$19.90
2 Plugs to 1 Socket	PS5112	$24.90	$22.40	$19.90

STAINLESS STEEL POWER DISTRIBUTION POSTS

1 YEAR WARRANTY

SZ2090 SZ2092 SZ2094

Heavy duty stainless steel posts mounted on a moulded plastic base.

- 48VDC max.
- Mounting hole diameter: 4.5mm
- Mounting hole spacing: 36mm between centres
- Dimensions: 45(W) x 43(L) x 35(H)mm

DO NOT USE FOR 240V

	Cat.	Qty 1+	Qty 4+	Qty 10+
Single M10	SZ2090	$12.90	$11.30	$10.30
Twin M8	SZ2092	$14.90	$13.40	$11.90
Twin M6	SZ2094	$14.90	$13.40	$11.90

Circuit Protection For PV Applications

ULTRA HIGH CURRENT FUSES

Littelfuse® patented technology designed for high current protection, found OEM on Ford, GM and Chrysler vehicles. Slo-Blo® feature eliminates nuisance blowing during temporary, short duration overloads. Commonly used for battery and alternator connections and other heavy gauge cables requiring ultra high current protection.

- SF1982 and SF1984 are slow blow fuses
- SF1986 is a short-circuit protection device
- Rated up to 32V AC or DC.
- Terminal studs 8mm.

HIGH CURRENT FUSE HOLDER SF1980
BOLT-DOWN FUSE 125A SF1982
BOLT-DOWN FUSE 250A SF1984

Littelfuse®

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fuse Holder	SF1980	$31.90	$28.70	$25.50
Bolt Down Fuse - 125A	SF1982	$11.90	$10.70	$9.50
Bolt Down Fuse - 250A	SF1984	$11.90	$10.70	$9.50

p.176 - suitable cable for really heavy duty D.C. circuitry

For next day delivery, or Click and Collect, see page 5

Solar Panel Mounting Hardware

ECOTECH PROFESSIONAL SOLAR MOUNTING HARDWARE

A universal and code compliant mounting system for attaching solar panels to the roof of your property. Designed to be used with either tiled or tin roofs, with any slope from 0-60° (either flat or pitched), and fully cyclone rated even for wind region D. The easy insertion modules mean that you don't have to slide each attachment along the rail to get it in place, they slot in quite easily at the very spot you want to attach them. For use with 35mm thick modules, a full range of components are available.

10 YEAR WARRANTY

- Cyclone proof to Wind Region D (installation guide must be strictly adhered to)
- Vertical or horizontal panel mounting
- Suits any solar panel width, but optimised for 800-825mm width
- Suitable for aluminium framed panels
- 10 year materials warranty
- AS/NZS 1170 approved
- Roof slope: up to 60°
- Wind load: 80m/s
- Snow load: 1.4kNm²

Note: not available at all stores but can be ordered

Rails & Splices	Cat.	Qty 1+	Qty 4+	Qty 10+
2560mm Solar Panel Rail 3PV	HS8800	$62.90	$56.50	$49.90
3405mm Solar Ecotech Rail	HS8801	$94.90	$85.50	$76.90
4200mm Solar Ecotech Rail	HS8802	$105.00	$95.50	$84.90
Solar Panel Mounting Rail Splice	HS8803	$5.60	$5.00	$4.40
Clamps, Hooks, & Legs	**Cat.**	**Qty 1+**	**Qty 4+**	**Qty 10+**
Solar Panel Rail End Clamp 35mm	HS8804	$4.90	$4.30	$3.90
Solar Panel Rail Mid Clamp 35mm	HS8805	$4.90	$4.30	$3.90
Solar Panel Tile Roof Hook	HS8806	$33.90	$30.40	$26.90
Solar Panel Tin Roof Hook	HS8807	$11.90	$10.90	$9.50
Solar Panel Adjacent Front Leg Tilt	HS8810	$19.90	$17.70	$15.70
Solar Panel Mounting Back Leg 10-15'	HS8811	$49.90	$44.90	$39.90
Solar Panel Mounting Back Leg 15-30'	HS8812	$62.90	$56.50	$49.90
Solar Panel Mounting Back Leg 30-60'	HS8813	$74.90	$67.40	$59.90

ABS SOLAR PANEL MOUNTS FOR CARAVAN/MARINE

Stick these heavy duty ABS plastic mounts onto your caravan or boat using Sikaflex®, and then screw your panel onto the mount. The solar panel is kept with adequate space underneath for cooling, and the curved design ensures adequate wind deflection for high winds. There are 4 different products, which can be used in any combination to suit your specific application. White in colour.

ABS SOLAR PANEL CORNER MOUNTS

A set of four corner mounts, to attach each corner of your solar panel to your desired mounting surface.
These can be used on their own for solar panels 40W or smaller.

- Dimensions: 150(L) x 150(W) x 65(H)mm Set of 4, CAT. HS8860

ABS SOLAR PANEL SIDE MOUNTS 180MM

This pair of side mounts are intended to be attached to the long edge of taller solar panels, such as 80W and above, adding extra mounting strength and giving more wind deflection.

- Dimensions: 180(L) x 120(W) x 65(H)mm PAIR, CAT. HS8862

ABS SOLAR PANEL SPOILER MOUNTS 510MM

Specifically designed to deflect wind on solar panel edges that face into high winds, such as the leading edge of solar panels mounted on caravan or RV rooftops. Well matched to 80W and 90W panels oriented with the short edge leading into the wind.

- Dimensions: 510(L) x 120(W) x 65(H)mm PAIR, CAT. HS8864

	Cat.	Qty 1+	Qty 4+	Qty 10+
Corner Mounts Set of 4	HS8860	$48.90	$44.00	$39.10
Side Mounts 180m - Pair	HS8862	$29.90	$26.90	$23.90
Spoiler Mounts 510mm - Pair	HS8864	$59.90	$53.90	$47.90

UNIVERSAL INDIVIDUAL SOLAR PANEL MOUNTING BRACKET

Each bracket includes a stainless steel M6 bolt and nut to attach it to the factory holes in the aluminium frame of your solar panel, meaning that no drilling or modification is required. Sold individually, so you just have to purchase the quantity that suits your panel & application.

- Recommended quantity for panels up to 40W: 4
- Recommended quantity for panels 40W-200W: 6
- Spacing from mounting surface: 22mm
- Dimensions: 80(L) x 68(W) x 35(H)mm

Note: Solar panel not included

	Cat.	Qty 1+	Qty 4+	Qty 10+
	HS8780	$9.90	$8.70	$7.70

ABS SOLAR CABLE ENTRY POINT

Usually, at some point the solar power cables need to enter into the caravan or boat and down to the battery area. To avoid making unsightly and potentially leaky cable entries, you can use this neat product and drill out your cable entry point, and then cover it over giving you two fully waterproof cable gland cable entries that look neat and purpose built.

- IP67 cable glands included
- Dimensions: 100(L) x 90(W) x 45(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Cable Entry Point	HS8866	$19.90	$17.90	$15.90

Solar Regulators / Charge Controllers

12V 6A BATTERY CHARGING REGULATOR FOR SOLAR PANELS

Designed for efficiently charging 12V batteries using solar cells rated up to 6 amps. It is easy to wire up, prevents battery discharge during low sunlight and indicates charging and full battery conditions using a yellow and green 3mm LED.

- Ideal for charging 12V SLA batteries from solar panels up to 60 watts
- 6 amp fuse and fuse holder recommended - not supplied

SPECIFICATIONS	AA0348
Input	14 to 30V (open circuit voltage), nominal 12V
Max. Input Current	6A
Inrush Voltage	Battery voltage < approx. 13.4V
Interrupting Voltage	Battery voltage > approx. 14.4V
Own Power Consumption	<2.5mA (LED's on)
Dimensions	72(W) x 50(D) x 42(Hmm)

	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 6A	AA0348	$36.90	$33.20	$29.50

MINIATURE 12/24V 3A PWM SOLAR CHARGE CONTROLLER

NEW

This compact solar controller uses Pulse Width Modulation (PWM) to manage battery charging from a connected solar panel. It features light and timer control, similar to street lights, and three charging states (bulk, equalise, and float charging). It provides all the important safety features such as overcharge, over-discharge, over-current, short-circuit, and reverse-polarity protection.

- Red charge LED indicator
- Green power LED indicator
- Hang hook
- Battery voltage automatic identification
- PWM charging mode
- Comprehensive electronic protection

SPECIFICATIONS	MP3762
Rated Voltage	12V
Strong Charging Pressure	14.8V
Equilibrium Charging	14.5V
Float Charging Pressure	13.7V
Under Voltage	10.8V
Under Recover Voltage	13V
Non-Load Current	≤ 6mA
Charging Circuit Voltage Drop	≤ 0.2V
Discharge Circuit Voltage Drop	≤ 0.1V

	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V 3A	MP3762	$16.90	$14.90	$13.90

p.378 - solar panel meter

Solar Regulators / Charge Controllers CONTINUED

12/24V PWM SOLAR CHARGE CONTROLLERS WITH LED INDICATOR AND USB

Intelligent yet lightweight, this solar controller uses Pulse Width Modulation (PWM) to control battery charging. With total autonomy, its set-and-forget operation means you can get maximum charge into your batteries from your solar installation without having to worry about those things. It provides all the important safety features such as overload, short-circuit, over-discharge, and reverse-polarity protection. A handy feature is also the USB port located on the front panel, to provide up to 1.2A charging. Very handy during power outages to keep your phone charged without any additional equipment. Charge modes include bulk, equalise, and float charging, and the unit automatically switches to the best charging mode. Suitable for sealed lead-acid, as well as Gel/flooded type cells.

- Automatic charge mode selection
- Suitable for 12V and 24V battery banks
- USB charging port on front panel

1 YEAR WARRANTY

SPECIFICATIONS	MP3750	MP3752
Charging Modes	Bulk, Equalise, Float	
Supports	Sealed, Gel and Flooded	
Voltage	12/24VDC	
Charging Current	10A Max.	20A Max.
USB Output	5V @ 1.2A	
Weight	100g	180g
Dimensions	130(H) x 85(W) x 30(D)mm	

	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V 10A	MP3750	$45.90	$40.90	$35.90
12/24V 20A	MP3752	$79.90	$71.90	$63.90

12/24V PWM SOLAR CHARGE CONTROLLERS IP67

A highly efficient fully automatic 12/24V PWM solar charge controller that adopts the most advanced digital technology which increases battery lifetime and improves solar system performance. With a robust industrial housing and IP67 protection this charge controller is suited to most applications especially extreme outdoor environments where corrosion, dust and water ingress are prevalent. Capable of automatically detecting day/night it comes with an inbuilt timer which can be set to operate loads at specific intervals or manually in the night.

- High efficient PWM charging
- Automatically recognizes day/night
- LED indicators for PV and battery status
- Industrial design, wide application range
- Intelligent timer function with 1 to 13 hours' option
- PV reverse polarity protection
- Battery overcharge, over discharge, reverse polarity and overheating protection
- Load overload and short circuit protection

1 YEAR WARRANTY

SPECIFICATIONS	MP3756	MP3758
Max. PV Input Voltage	50V	
Current	10A	20A
Equalize Voltage	14.8V(12V) / 29.6V(24V)	
Boost Voltage	14.4V(12V) / 28.8V(24V)	
Float Voltage	13.7V(12V) / 27.4V(24V)	
Low Voltage Reconnect Voltage	12.6V(12V) / 25.2V(24V)	
Low Voltage Disconnect Voltage	11.2V(12V) / 22.4V(24V)	
Self-Consumption	12V: ≤4.58mA 24V: ≤6.01mA	
Temperature Compensation Coefficient	-5mV/°C/2V (25°C)	
Working Temperature	-35°C - 55°C	
IP Rating	IP67	
Mounting Dimension	101mm	
Mounting Hole Size	ø5	
Power Cable	PV/BAT/LOAD: 4.0mm²	PV/BAT/LOAD: 6.0mm²
Weight	410g	435g
Dimensions	109(W) x 75(H) x 26(D)mm	

	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V 10A	MP3756	$69.90	$62.90	$55.90
12/24V 20A	MP3758	$99.90	$89.90	$79.90

12/24V 10A DUAL BATTERY PWM SOLAR CHARGE CONTROLLER WITH LED INDICATOR

2 YEAR WARRANTY

We have many solar battery charger controllers - up to 50A - but they only work on one battery bank. This unit will charge TWO house battery banks or one house bank and your motor start battery as well. Too often the motor start battery is forgotten if you are camped in the one spot for a long time.

- Will charge 2 completely separate battery banks at the same time
- Works with 12V or 24V systems
- Highly efficient PWM (Pulse-width modulation) charging system
- Provides up to 10A charging current (Limited by size of your solar panels)
- Electronic protection from over charging short circuit or accidental reverse battery connection

Specifications:

- Max solar input voltage: 30V (12V system), 55V (24V system)
- Battery input voltage range: 8-15V (12V system), 8-30V (24V system)
- Max output current (both channels): 10A
- Overnight self-consumption: 4mA
- Dimensions: 153 (W) x 76 (H) x 37 (D) mm
- Weight: 240g

Recommended solar panel to utilise output of this controller. ZM9059, 8.3A unit.

(Note output of this controller is limited by the current output of the solar panel feeding it)

	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V 10A	MP3760	$79.90	$71.90	$63.90

tech talk Solar Charge Controllers

Directly connecting a solar panel or array to a battery can be catastrophic as solar panels can output a wide voltage range. As an example, a nominal 12 volt rated panel can output anything up to 22 volts during an average sunny day. A solar charge controller between the panel and the battery ensures the battery receives the correct output voltage and current from the panel to minimise the risk of the battery being overcharged or discharging back into the panels. Charge controllers come in a variety of types which give different performance and can be matched to simple recreational applications all the way up to complex high power solar array installations. SWITCHING: Simple switching controllers connect the panel to the battery when the panel is providing power & the battery is not fully charged. This type of controller is low cost and only good for basic solar equipment setups such as standby lighting, etc. where the panel yield is far higher than the load requires. PWM: Pulse width modulated (PWM) controllers continually apply voltage pulses to the battery whenever the panel is providing sufficient voltage. The pulse width (or duration) is varied by the controller depending on the charge state of the battery to ensure the correct amount of charge is harvested from the panel whenever it is available. As a result, PWM controllers provide a much higher power yield than simple switching controllers.

MPPT: Maximum power point tracking (MPPT) controllers maximize power conversion between the panel output and the battery input by using a DC to DC switchmode power converter. By continuously tracking the panel output and adjusting the converter they yield the maximum amount of power under widely varying solar conditions. MPPT controllers give the best solar system efficiency and improve solar system power yield by a significant percentage. Both PWM and MPPT controllers are available with display panels which allow you to track performance of the solar system. Panel voltage, battery voltage, charging current, and total charge supplied can be easily displayed so you can ensure the system is running correctly. More complex models also include integration functions to remotely control other equipment or be linked into advanced systems.

For next day delivery, or Click and Collect, see page 5

Solar Regulators / Charge Controllers CONTINUED

12/24V 30A PWM SOLAR CHARGE CONTROLLER WITH LCD DISPLAY AND TIMER FUNCTION

A highly efficient and reliable solar charge controller which uses regulated charge rates to safely and correctly charge your battery. It automatically detects 12 or 24 volt inputs and can be left on permanently in maintenance mode to ensure battery stays at an appropriate level. Dual timer feature allows for loads (12/24 Volt appliances) to be controlled at certain times during the night when needed. An intuitive LCD screen displays various smarts allowing users to access voltage capacity, charging current, Timer and many more features.

- High efficiency
- LCD Backlit display

1 YEAR WARRANTY

SPECIFICATIONS	MP3754
Maximum Input DC Current	30A
Maximum Open Circuit Voltage	29VDC @ 12VDC, 45VDC @ 24VDC
Maximum Load DC Current	30A
End of Charge Voltage	14.4/28.8VDC±2%
Deep Discharge Protection Voltage	11/22VDC±2%
Battery Rated Voltage	12/24VDC
Typical Idle Consumption	20mA
Operating Temperature	-20°C/+50°C

	Max. Load Current	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V with Timer Function	30A	MP3754	$119.00	$106.90	$94.90

12V/24V MPPT* SOLAR CHARGE CONTROLLERS

MPPT technology uses DC to DC conversion along with some electronic smarts to be able to extract the absolute maximum charging power from your solar panels, giving you up to an extra 10-40% from your solar panels when compared to a normal PWM charge controller. Adding to the benefits of MPPT technology are the features of this charge controller, such as 3-stage battery charging, twin timer programming, 30A load control with automatic load disconnection/reconnection, and much more. Programming is simple and intuitive via the front panel buttons whilst the LCD screen shows you what's happening. Suitable for 12V or 24V systems.

- Automatic load control with low-voltage disconnect/reconnect
- Two timers available for programming
- Includes temperature sensor for battery charging compensation
- Protection against over voltage, reverse connection, short circuit, over current, and over temperature

NOTE: Unit WILL charge a 12V battery from 24V solar panels, but not vice versa.

1 YEAR WARRANTY

**MPPT means Maximum Power Point Tracking.*

SPECIFICATIONS	MP3739 12V BATTERY	MP3739 24V BATTERY	MP3735 12V BATTERY	MP3735 24V BATTERY
PV Nominal Voltage	12V	24V	12V	24V
Max PV Array	180W	360W	360W	720W
Max PV Open Circuit Voltage	50V	50V	65V	65V
Bulk Charge (Adjustable)	13.8-14.8V	27.6-29.6V	13.80-14.8V	27.6-29.6V
Float Voltage (Adjustable)	13.0-14.2V	26.0-28.4V	13.0-14.0V	26.0-28.0V
Max Charge Current	15A	15A	30A	30A
Max Load Current	15A	15A	30A	30A
Ambient Temp Range	-20°C - 50°C	-20°C - 50°C	-20°C - 50°C	-20°C - 50°C
Efficiency	98%	98%	97%	97%
Dimensions	205(L) x 145(W) x 55(H)mm		205(L) x 145(W) x 55(H)mm	

	Max. Load Current	Cat.	Qty 1+	Qty 2+	Qty 4+
12V/24V	15A	MP3739	$179.00	$160.90	$142.90
12V/24V	30A	MP3735	$289.00	$259.00	$229.00

12-48VDC 50 AMP MPPT SOLAR CHARGE CONTROLLER

A highly intelligent charge controller for use with solar installations. Use with 12, 24, 36, or 48V battery banks. Maximum Power Point Tracking (MPPT) for maximum efficiency and charge rate. For use with solar arrays up to 95VDC. It features adjustable bulk and float charge voltages to fine-tune for your installation, and heavy duty terminals for heavy gauge cabling. The LCD provides feedback on charge status, current and voltages. Built into a durable heatsink case for permanent installation.

- High Efficiency MPPT Charging
- Overcharge Protection
- Reverse Current Protection
- Automatic Charge Management
- Under-Voltage Protection

SPECIFICATIONS	MP3731
Compatible Battery Bank Voltages	12 / 24 / 36 / 48VDC Selectable
Maximum Input Power	650W (12VDC System) / 1300W (24/36/48VDC System)
Input Voltage	16 - 95VDC
Max Charging Current	50A (12 / 24 VDC), 35A (36VDC), 25A (48VDC)
MPPT Efficiency	> 99%
Max Load Current	50A
DC Load Output Voltage	Battery Voltage
Over Discharge Voltage	11.3 / 22.6 / 34.2 / 45.6
Overnight Standby Current	60mA Max
Dimensions	202(W) x 235(H) x 88(D)mm, 2kg

1 YEAR WARRANTY

	Max Load Current	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24/36/48VDC	50A	MP3731	$399.00	$359.00	$319.00

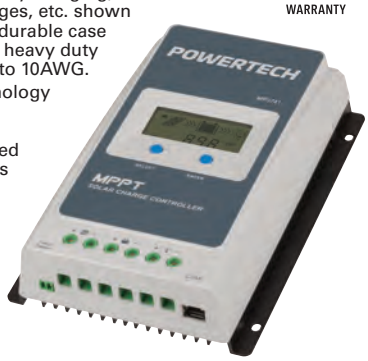
Solar Regulators / Charge Controllers CONTINUED

20A MPPT SOLAR CHARGE CONTROLLER FOR LITHIUM OR SLA BATTERIES

NEW

1 YEAR WARRANTY

Uses Maximum Power Point Tracking (MPPT) for maximum efficiency and charge rate. Able to charge lead acid (sealed, gel or flooded) or lithium battery banks between 8V to 32V, and supports 12V solar arrays up to 260W or 24VDC arrays up to 520W. It features bulk, constant and float charge stages for rapid, efficient and safe battery charging, with feedback on charge status, current, voltages, etc. shown on the LCD screen. Built into a durable case for permanent installation with heavy duty screw terminals for cabling up to 10AWG.



- Advanced MPPT control technology
- High tracking and conversion efficiency
- Supports Sealed, Gel or flooded lead acid and Lithium batteries
- 3-stage intelligent charging
- Multiple load work modes
- Extensive electronic protection
- Backlit LCD display
- RS485 communication

Battery support:

- Sealed, gel or flooded Lead
- Acid (9~17V/12V; 18~34V/24V)
- LiFePO4 (12V/24V)
- Li(NiCoMn)O2 (12V/24V)

WI-FI CONNECTION MODULE

NEW

Wi-Fi

Add Wi-Fi communication to the MP3741 Solar Charge Controller with this interface and control your power installation with your smartphone!

- Up to 50 metres communication range

Note: Not stocked in all stores but can be ordered.

SPECIFICATIONS	MP3741
Nominal Voltage:	12/24VDC (Auto)
Charge Current:	20A
Discharge Current:	20A
Battery Voltage:	8 - 32V
PV Open Circuit Voltage:	100V
Consumption:	less than equal too 12mA
Dimensions:	220(H) x 154(W) x 52(D)mm
Weight:	940g

	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V 20A	MP3741	$229.00	$199.00	$179.00
Wi-Fi Connection Module	MP3746	$69.90	$62.90	$55.90

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We're here to chat!

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youtube.com/user/JaycarVideo

free boxes!

MOVING HOUSE? NEED SOMETHING FOR STORAGE?

In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

Solar Books

SOLAR THAT REALLY WORKS!

The sun god Ra has been raining down free energy for about 4.5 billion years and it is only in recent years that humans have developed the technology to capture it. This is an informative book that fills a previously all but unexplored need in one concisely written book. It covers everything you need to know to design a solar electrical system, for everything from a caravan to a permanent remote dwelling. It also contains specialised information for applications such as converted coaches. Solar that Really Works shows what can and can not be run from typical solar installations as well as how to calculate energy requirements. You won't be left asking questions, as the author has everything covered!

- Completely revised 3rd edition
- Softcover, 96 pages, 297 x 210mm (A4)

	Cat.	Qty 1+
	BE1535	$59.90

SOLAR SUCCESS - COMPLETE GUIDE TO HOME AND PROPERTY SYSTEMS

A complete guide for home and remote property systems, this book is about using solar energy to reduce the fossil fuel generated electricity that produces our carbon footprint. This can be done by three associated and economically viable approaches: reduce energy usage by doing things differently, reduce energy usage by using more energy-efficient appliances, and, change the supply of energy to non-fossil fuel through appropriate technology. A pragmatic no-nonsense approach to solar energy written by acclaimed Australian author Collyn Rivers, who walks the walk by showing his self-installed solar system on his 100% solar powered 10-acre property in the Kimberley. Spiral bound softcover.

- 100 pages, 297 x 210mm

	Cat.	Qty 1+
	BE1537	$69.90

Solar Power Meter

SOLAR POWER METER

Installing solar panels can result in a missed opportunity if they're not positioned optimally to catch the radiation from the sun. Similarly to a TV installer using a signal meter, you can use this device to find optimum locations on a rooftop (or wherever you're installing them) to help ensure they'll be efficient and generate as much of their rated power possible for your location. Expressed as either W/m2 (Watts per square metre), or BTU/ft² (British thermal units per square foot). Measurement up to 1999W/m², or 634BTU/ft2. With data hold and high accuracy, you can get rapid readings on the huge LCD. Includes carry case.

- Optimise solar panel installation
- High accuracy
- Fast readings

SPECIFICATIONS	QM1582
Range	0- 19999W/m², 634BTU/ft²
Resolution	1W/m²; 1 BTU/ft²
Sampling Time	0.25 Seconds Approx.
Power	3 x AAA Batteries (Included)
Weight	260g
Dimensions	63(W) x 162(H) x 26(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1582	$119.00	$106.90	$94.90

For next day delivery, or Click and Collect, see page 5

High Current Connectors

These connectors first appeared on electric forklift trucks. They proved to be so useful, reliable and versatile the original type grew to be a family of connectors of various current carrying capacities. The applications have grown considerably and now you commonly see them in RV, caravan and other off-road vehicle, and of course in marine applications. They were originally made by a company called Anderson® and indeed this name has become the generic description for the type. Jaycar carries a very large range of Anderson-type connectors for every time high current needs to be reliably coupled together.

50A ANDERSON® CONNECTORS

This is the most popular standard Anderson® unit. It supports the greatest range of variations. It is very commonly used in marine, 4WD and caravanning applications. Supplied as a moulded grey body with identical positive and negative contacts. Inserting the contacts in the body automatically polarises the connector (Cable entry contacts do not change overall connector body size).

SPECIFICATIONS	PT4425	PT4427	PT4420	PT4426 NEW
Contact Rating	50A			
Contact Wire Size	#8 AWG	#12-10 AWG	13.3mm² (#6 AWG)	#8 AWG
Voltage Rating	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Dia.	11mm	11mm	11mm	11mm
Contact Retention Force	22kg	22kg	22kg	22kg
Operating Temperature	-20 to +105˚C	-20 to 105˚C	-20 to +120˚C	-20 to +120˚C
Dimensions	48(L) x 36.5(W) x 15.9(H)mm			

AWG	Colour	Cat.	Qty 1+	Qty 10+	Qty 50+
12-10	Grey	PT4427	$11.90	$10.70	$9.50
8	Grey	PT4425	$11.90	$10.70	$9.50
8	Red NEW	PT4426	$11.90	$10.70	$9.50
6	Grey	PT4420	$11.90	$10.70	$9.50

120A & 175A ANDERSON® CONNECTORS

These are the larger body connector styles that you commonly see on electric forklift trucks. You occasionally see them use as winch connectors on 4WDs, especially the PT4422 model. Identical design to 50A model only larger. The positive and negative contacts are the same and inserting the contacts home inside the connector (once the power cable has been crimped or solder-sweated) is seated home the connector is automatically polarised.

SPECIFICATIONS	PT4422	PT4424
Contact Rating	120A	175A
Contact Wire Size	33.6mm² (2 AWG)	53.5mm² (1/0 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Dia	14.6mm	19mm
Contact Retention Force	45.5kg (100lbs)	137kg (300lbs)
Operating Temperature	-20 to +125˚C	-20 to +125˚C
Anderson® Part No.	B120-6800G1	SB175-6325G1
Dimensions	63.5(L) x 44.5(W) x 20.6(H)mm	79.4(L) x 55.4(W) x 25.4(H)mm

AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
2	120A	PT4422	$24.90	$22.30	$19.70
1/0	175A	PT4424	$39.90	$35.90	$31.90

ANDERSON POWER SB50/PP75 6AWG CONTACTS - PACK OF 5

NEW

A packet of 5 replacement terminals to suit 50 amp Anderson connectors such as our PT4420 connector. They are generally attached by filling with molten solder as crimping would require a pneumatic level of force!

	Cat.	Qty 1+	Qty 10+	Qty 50+
Pack of 5	PT4418	$7.90	$7.10	$6.30

High Current Leads

50A ANDERSON® LEADS

PT4440

A series of Anderson® connector leads for automotive, caravan, 4WD or industrial interconnection. The design of the Anderson® connector housing is genderless, whereby each connector simply interconnects with another so you can't plug them in the wrong way - one less thing to worry about! Each lead is pre-made with machine crimped terminations, and tinned copper cable. Connectors are rated at 50Amps, with either 8AWG cable or 16AWG cable fitted depending on the model.

Six versions available:

PLUG EXTENSION, 8AWG 5M
CAT. PT4440

PIGGYBACK, 8AWG, 300MM
CAT. PT4442

EYE TERMINAL, 8AWG, 300MM
CAT. PT4444

Anderson® TO 15A CIGARETTE PLUG, 16AWG, 300MM
CAT. PT4446

Anderson® TO 15A CIGARETTE SOCKET, 16AWG, 300MM
CAT. PT4448

Anderson® TO 2 X 15A CIGARETTE SOCKET, 16AWG, 300MM
CAT. PT4447

	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Extension Lead	PT4440	$99.90	$89.90	$79.90
Piggyback Lead	PT4442	$46.90	$42.40	$37.40
Eye Terminal Lead	PT4444	$19.90	$17.90	$15.90
Cigarette Plug Lead	PT4446	$22.90	$20.30	$17.90
Cigarette Socket Lead	PT4448	$22.90	$20.30	$17.90
2 x Cigarette Socket Lead	PT4447	$28.90	$25.90	$22.90

50A ANDERSON® PLUG TO INSULATED BATTERY CLAMPS

Tough insulated battery clamps connected to an Anderson® plug. Ideal for connecting a solar panel, portable fridge, compressor, or inverter to a battery.

- 8 AWG cable
- 50A rated
- Insulated battery clamps
- Length: 300mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT4449	$29.90	$26.90	$23.90

SOLAR PANEL PV PLUG & SOCKET TO ANDERSON® PLUG - 300MM

Anderson® connectors one end (50A), PV connectors on the other end. 4mm² conductor 30 amp capacity, twin sheath high quality cable. Ideal for connecting from an Anderson® connector solar panel source to a PV load. Comes with grommets on each side for straight forward and neater installations.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS5122	$24.90	$22.40	$19.90

PV CONNECTOR TO EYE TERMINAL LEAD

A handy lead allowing you to attach your battery through the eye terminals to your PV connection on your solar panel. Utilise these red and black 400mm cables, with grommets on each side for straightforward and neater installations.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS5124	$24.90	$22.40	$19.90

High Current Connectors CONTINUED

INDIVIDUAL NESTING CONNECTORS

They are genderless which means that there is no separate plug and socket and can be easily stacked to make custom configurations. Supplied as a red and black pair with contacts.

SPECIFICATIONS	PT4402	PT4405
Contact Rating	15A	30A
Voltage	600V (AC or DC)	600V (AC or DC)
Contact Wire Size	0.52-1.3mm² (20-16AWG)	1.3-3.3mm²(16-12AWG) closed barrel
Max Wire Insulation Dia	2.54mm	4.4mm
Contact Retention Force	9kgs (20lbs)	9kgs (20lbs)
Operating Temperature	-20 to + 105˚C	-40 to +125°C

SPECIFICATIONS	PT4406	PT4407
Contact Rating	45A	75A
Voltage	600V (AC or DC)	600V (AC or DC)
Contact Wire Size	2.1-5.3mm²(14-10AWG) open barrel	13.3mm²(6AWG)
Max Wire Insulation Dia	5.08mm	1.3 - 13.3mm
Contact Retention Force	9kgs (20lbs)	22kgs (50lbs)
Operating Temperature	-40 to +125˚C	-40 to +125˚C

AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
20-16	15A	PT4402	$5.30	$4.75	$4.20
16-12	30A	PT4405	$5.90	$5.20	$4.70
14-10	45A	PT4406	$6.90	$5.90	$5.50
6	75A	PT4407	$15.90	$14.30	$12.70

ANDERSON® POWERPOLE SERIES 4 PIN DATA CONNECTOR

A genderless 4 pole signal Anderson® connector in a PP15 casing. The design allows you to stack this with the PP15 series 15A Anderson® connector (PT4402) for DC and signal wiring connectivity. It provides a secure quick disconnect for power and signal distribution systems.

- Voltage: 300V
- Current Rating: 7A
- Up to 24 gauge for signal wire connectivity.
- Dimensions: 25(L) x 8(W) x 8(H)mm

		Cat.	Qty 1+
Stackable	7A	PT4403	$18.90

tech talk Assembling Anderson® Style Connectors

These connectors come with absolutely no assembly instructions which might surprise some. Assembly is self-evident however.

All that you really have to do is solder-sweat the heavy gauge wire into the 'pot' on the end of the connector tip. It is a good idea to puddle some solder into the pot and then lower the tinned wire into the pot. It may be necessary to apply some more heat (usually with a small gas torch or stove gas top) to get the whole lot to melt. Try to keep the joint immobile until the solder 'sets', then cool off under tap water. And of course you can always crimp the lead into the solder cup, but this should really be done professionally. A piece of heat shrink tidies the job nicely. The wire/lug/contact then just snaps into the housing. Look for our Anderson® terminal crimping tool on page 213.

HANDLES FOR ANDERSON® STYLE CONNECTORS

Facilitates easy connection/ disconnection. Ensures a secure grip, even with gloved hands for easier charging of electric forklifts etc.

Suits Anderson® Style Connectors

50A CAT. PM4436
120A CAT. PM4438
175A CAT. PM4439

Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
PT4420/25/27	PM4436	$6.90	$6.20	$5.50
PT4422	PM4438	$8.90	$8.00	$7.10
PT4424	PM4439	$22.90	$20.90	$17.90

4 WAY 15A ANDERSON® CONNECTORS

These are the high impact and corrosion-resistant black thermoplastic outer shells with a 4 way 15A Anderson® multi-connectors. They allow easy connection and disconnection for the electrical equipment in commercial and industrial applications. The cable clamps provides strain relief and integral latches to prevent any accidental disconnections of your equipment. The positive latching provides security in applications where shock or vibration may be severe and the integral strain relief to reduce the risk of wire breakage.

4 WAY 15A

- Dimensions: 53(L) x 32(W) x 22(H)mm
  CAT. PT4434

4 WAY 15A WITH LATCH

- Dimensions: 53(L) x 32(W) x 22(H)mm
  CAT. PT4436

		Cat.	Qty 1+	Qty 10+	Qty 50+
4 Way	15A	PT4434	$17.90	$16.10	$14.30
4 Way with Latch	15A	PT4436	$17.90	$16.10	$14.30

ANDERSON® 35A SBS MINI CONNECTORS

These compact mini connectors can handle up to 600 volts continuous in AC or DC with current up to 35A. The mechanical and colour coded keys protect against accidental cross mating of connectors. The genderless housing makes for easy assembly in the factory or the field. The touchsafe housing prevents accidental exposure to live circuits and these also have the ability to disconnect under load. Supplied as a moulded 2 pole with contacts.

PT4480 PT4482 PT4484

SPECIFICATIONS	PT4480	PT4482	PT4484
Housing Colour	Black	Red	Grey
Contact Rating	35A		
Contact Wire Size	10 AWG		
Voltage Rating	600 (AC or DC)		
Max Wire Insulation	4.0mm²		
Operating Tempreature	20°C to 105°C		
Anderson® Part No	B02265G2	B02265G1	B02265G4

		Cat.	Qty 1+	Qty 10+	Qty 50+
Black	35A	PT4480	$10.90	$9.70	$8.90
Red	35A	PT4482	$10.90	$9.70	$8.90
Grey	35A	PT4484	$10.90	$9.70	$8.90

tech talk Safe Wiring Principles

Most of the products shown on these pages are designed for powering accessories in cars and trucks. They are perfect for example in wiring big power amps in your car. If you intend to use these components for critical applications (say, where safety is an issue) we suggest that you wire multiple circuits if possible and limit the current in each circuit accordingly. Then if you lose one circuit you will have some redundancy. You don't, for example want to lose your headlamp circuit at night because of Deep Purple! This principle, of course, applies to all high current wiring.

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Extended Versatility Anderson® Adaptors & Accessories

This range enables you to chassis or panel mount Anderson® plugs. Something you have not been able to do in the past. There are also waterproofing boots, etc.

CHASSIS MOUNT ANDERSON® ADAPTORS

1 YEAR WARRANTY

Black cover assemblies with locking device and UV insulated protection to suit Anderson® and Anderson® style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine & industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction

Three models available:

50A	PT4460
120A	PT4462
175A	PT4464

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits 50A	PT4460	$24.90	$22.50	$19.70
Suits 120A	PT4462	$29.90	$27.00	$23.70
Suits 175A	PT4464	$34.90	$31.90	$27.90

50 AMP CONNECTOR COVER ASSEMBLY QUICKFIT

Anderson® type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits 50A	PT4466	$31.90	$28.70	$25.50

50A RED CHASSIS MOUNT ANDERSON® ADAPTORS

Red 50 amp cover assembly with locking device and UV insulated protection to suit Anderson® and Anderson® style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits 50A	PT4470	$24.90	$22.50	$19.70

PANEL MOUNT ANDERSON® CONNECTOR

Flush mount Anderson® type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits 50A	PT4472	$29.90	$27.00	$23.70

DUSTPROOF RUBBER BOOT FOR 50A ANDERSON® MOUNTS

Rubber sleeve for water, dust and UV protection of Anderson® style connectors.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits 50A	PT4474	$4.90	$4.40	$3.90

120A CHASSIS MOUNT ANDERSON® ADAPTOR RED

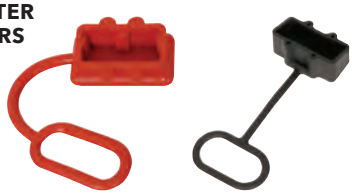
Red 120 amp cover assembly with locking device and UV insulated protection to suit Anderson® and Anderson® style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction
- Built-in 3mm LED to indicate power status
- Dimensions: 100(L) x 77(W) x 45(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
120A Chassis Mount Red	PT4463	$28.90	$25.90	$22.90

HIGH CURRENT DUST/WATER RESISTANT RUBBER COVERS

A water and dust resistant rubber cover to suit our connectors.



SUITS		Cat.	Qty 1+	Qty 10+	Qty 50+
PT4420/25/27	50A	PM4434	$8.90	$8.00	$7.10
PT4422	120A	PM4432	$16.90	$14.90	$13.90
PT4424	175A	PM4430	$19.90	$17.90	$15.90

WATERPROOF ANDERSON® CONNECTORS

These soft shell boots provide water, dirt, chemical and UV protection for the high current Anderson® connectors. The durable boots shield the connectors from water and dirt to IP64 when connected or by itself when the integral cover is used. The terminals of the rubber boot can also be customised to fit cables in-between 12-6 AWG (4-16mm²) wires.

- IP64 protection
- Resistant to UV, Roadway Chemical and Ozone
- Splash resistant when connected and by itself when the integral cover is used
- Customise boot terminals to fit your cables from 12-6 AWG which is 4-16mm²
- Mountable
- Easy to use

Dimensions when connected: 151(H) x 55(W) x 160(L)mm

50A BOOT LOAD SIDE
- Dimensions: 85(H) x 55(L) x 20(W)mm
  CAT. PT4428

50A BOOT SOURCE SIDE
- Dimensions: 85(H) x 55(L) x 20(W)mm
  CAT. PT4429

120A BOOT LOAD SIDE
- Dimensions: 112(H) x 57(L) x 39(W)mm
  CAT. PT4431

120A BOOT SOURCE SIDE
- Dimensions: 118(H) x 59(L) x 39(W)mm
  CAT. PT4432

175A BOOT LOAD SIDE
- Dimensions: 135(H) x 77(L) x 42(W)mm
  CAT. PT4438

175A BOOT SOURCE SIDE
- Dimensions: 135(H) x 68(L) x 42(W)mm
  CAT. PT4439

	Cat.	Qty 1+	Qty 10+	Qty 50+
Boots to Suit 50A Male	PT4428	$19.90	$17.90	$15.90
Boots to Suit 50A Female	PT4429	$20.90	$18.80	$16.70
Boots to Suit 120A Male	PT4431	$29.90	$26.90	$23.90
Boots to Suit 120A Female	PT4432	$29.90	$26.90	$23.90
Boots to Suit 175A Male	PT4438	$29.90	$26.90	$23.90
Boots to Suit 175A Female	PT4439	$36.90	$33.20	$29.50

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Automotive Connectors

WATERPROOF DEUTSCH CONNECTOR SETS

High quality Waterproof 2-way "Deutsch" connectors commonly used in automotive or marine applications. Perfect for connecting up sensors/lights in the engine bay due to their superior corrosion protection and waterproof properties.

- Supplied as a male & female connector set with housings, wedges, seals and crimp pins
- Rated to 13A current

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2150	$9.50	$8.50	$7.50
4 Way	PP2149	$9.90	$8.90	$7.90
6 Way	PP2148	$10.90	$9.90	$8.90

AUTOMOTIVE WATERPROOF PLUG & SOCKET SETS

Waterproof automotive connectors commonly used on many modern cars for wiring connections within the engine bay and other areas that are exposed to moisture. The interlocking parts are surrounded by a rubber seal, while an individual grommet seals each wire. Each package includes plug, socket, cable grommets and crimp pins.

- Current rating: 20A (max.)
- Pin spacing: 7.5mm
- Assembled Length: 70mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2110	$9.90	$8.70	$7.70
3 Way	PP2112	$13.90	$11.90	$10.70
4 Way	PP2114	$22.90	$20.30	$17.90
6 Way	PP2116	$24.90	$22.30	$19.70

AUTOMOTIVE MULTI-WAY PLUG / SOCKETS - 250 SERIES

Commonly used in automotive applications such as stereo and CB installations, or for replacements in existing wiring. The housings interlock and they come in 2, 3, 4, 6 or 8 way sets. Each comes with plug, socket, and male and female locking spade lugs.

2 way & 6 way shown

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2062	$3.90	$3.10	$2.70
3 Way	PP2064	$4.50	$3.60	$3.30
4 Way	PP2066	$4.90	$4.10	$3.70
6 Way	PP2068	$5.90	$5.20	$4.70
8 Way	PP2069	$8.90	$7.70	$6.70

2 PIN 32 VOLT PLUGS & SOCKETS

For low voltage applications such as caravans etc up to 15 amps.

- Frankly, they are a bit clunky, but they are reliable and simple to use

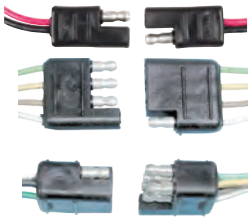
PS2073 PS2074 PP2075

	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Socket	PS2073	$24.90	$22.40	$19.90
Surface Socket	PS2074	$24.90	$22.40	$19.90
Line Plug	PP2075	$11.90	$10.70	$9.50

WIRED MULTI PIN PLUGS / SOCKETS

Heavy duty plug and socket with bullet type connectors.

- Pre wired with 18AWG wire
- Extremely handy when cables need to be periodically unplugged
- Bullet style connectors



	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Way	PP2034	$4.50	$3.60	$3.30
4 Way	PP2030	$10.90	$9.50	$8.50
6 Way	PP2032	$15.90	$14.30	$12.70

MINIATURE NYLON MOLEX-TYPE CONNECTORS

Suitable for high current/high density, wire-to-wire or wire-to-board applications. They are suitable for both power and signal connections.

- Fully isolated terminals
- Positive housing locks
- Four point of contact for reliability
- Low engagement force terminals
- Male and female pins supplied
- Wire size: 24-18AWG
- Current rating: 5A
- Voltage rating: 250VAC/350VAC

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP2021	$3.50	$3.00	$2.70
3 Pin	PP2023	$3.90	$3.30	$2.90
4 Pin	PP2027	$4.50	$3.70	$3.40
6 Pin	PP2025	$4.90	$4.30	$3.90

MULTI PIN PLUG / SOCKET

Each set consists of nylon body for male/female, along with male/female socket pins to fill all available poles. Will mate with standard MOLEX-type connectors.

- Wire size: 24-14AWG, 0.2 to 2.0mm
- Current rating: 15A AC/DC max
- Voltage rating: 300VAC/DC

ALSO KNOWN AS SOFT SHELL CONNECTORS

	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pole	PP2020	$3.50	$2.90	$2.60
3 Pole	PP2022	$3.90	$3.10	$2.70
6 Pole	PP2024	$4.90	$4.10	$3.70
12 Pole	PP2026	$8.90	$7.90	$6.90

PIN EXTRACTION TOOL

Take the frustration out of removing Molex connector pins with these time save tools. Simply slide the tool over the connector and push the plunger to effortlessly remove the pin. Both male and female pin extractors available.

TH1730

TH1732

	Cat.	Qty 1+	Qty 3+	Qty 6+
Male Extractor	TH1730	$29.90	$26.90	$23.90
Female Extractor	TH1732	$29.90	$26.90	$23.90

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

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For next day delivery, or Click and Collect, see page 5

Merit Automotive Connectors

MERIT PLUGS & SOCKETS

Smaller in size than existing cigarette lighter connectors, they also have the advantage of a superior rugged construction and higher current carrying capability. The panel sockets feature a flip down cover to resist ingress of moisture and dust, and can withstand long periods of sustained current draw (unlike the el-cheapo versions of these connectors!). We have even included a modular merit plug to cigarette lighter adaptor in our range for those people who need both styles in a single connector (like those used on popular brands of 4WD fridges and spotlights).

MERIT PLUG WITH CIGARETTE LIGHTER ADAPTOR (FUSED MAX 8A)

PP2094

IN-LINE MERIT SOCKET WITH COVER (MAX 15A)

PS2096

UNFUSED MERIT PLUG (15A)

PP2090

MERIT PANEL SOCKET WITH SPRUNG COVER (MAX 15A)

PS2092

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 10+	Qty 50+
Unfused Plug	PP2090	$8.50	$7.60	$6.80
Plug with Cigarette Lighter Adaptor	PP2094	$8.90	$7.90	$6.90
Panel Socket with Sprung Cover	PS2092	$11.90	$10.70	$9.50
In-line Socket with Cover	PS2096	$8.90	$7.90	$6.90

Marine Grade Cigarette Plugs & Sockets

MARINE GRADE 10A LOCKING CIGARETTE PLUGS & SOCKETS

Marine grade, weather and UV resistant. Ideal for situations where your 12V gear will face mud, dust, salt and other contaminants. A matched locking plug and socket will lock together securely for protection against vibration and shock, or happily work individually with normal cigarette plugs/socket as well.

- PP1970 plug features a green power LED indicator
- Rated current: 10A
- Fuse protected (PP1970)
- PS1972 features protective dust cap and mounting panel
- Locking pins so stay plugged in when plug and socket matched
- Dimensions:

PP1970: 90(L) x 25(Dia)mm
PS1972 Panel: 59(L) x 43(W) x 4(D)mm, Socket 40(L) x 36(Dia)mm
PS1974: 70(L) x 51(H) x 58(W)mm

PP1970

PS1972

PS1974

NEED MORE THAN 10AMPS? WHY NOT HAVE A LOOK AT ANDERSON® CONNECTORS. THEY START ON PAGE 404

	Cat.	Qty 1+	Qty 10+	Qty 50+
Cigarette Plug with LED	PP1970	$9.50	$8.50	$7.50
Panel Mount Socket + Dust Cover	PS1972	$9.50	$8.50	$7.50
Surface Mount Socket with Dust Cover	PS1974	$17.90	$15.90	$13.90

MARINE GRADE 10A CIGARETTE POWER SOCKETS

High current, marine grade cigarette power sockets capable of up to 10A current, and supplied with multiple mounting options. There is a flat mounting panel, an under dash bracket (for PS2020 only), and a surface mounting "hood".

- Connections via 6.3mm spade terminals

Four versions available:

PS2020

PS2022

PS2024

SINGLE CIGARETTE POWER SOCKET

Includes panel, under dash & surface mount brackets CAT. PS2020

DUAL CIGARETTE POWER SOCKETS

Includes panel & surface mount brackets CAT. PS2022

CIGARETTE POWER SOCKET & LED VOLTMETER

Includes panel & surface mount brackets CAT. PS2024

CIGARETTE POWER SOCKET & 2 PORT USB CHARGER (3.5A)

Includes panel & surface mount brackets

Dimensions - Panel mount:

- Single - 60(W) x 42(H)mm
- Dual - 100(W) x 42(H)mm
- Surface mount hoods:
- Single - 55(W) x 80(L) x 50(H)mm
- Dual - 98(W) x 78(L) x 49(H)mm
- Under dash bracket: 58(W) x 51(H) x 15(D)mm (PS2020 only)

CAT. PS2026

PS2026

Cigarette	Cat.	Qty 1+	Qty 10+	Qty 50+
Socket - Single	PS2020	$19.90	$17.90	$15.90
Socket - Dual	PS2022	$24.90	$22.40	$19.90
Socket with LED Voltmeter	PS2024	$37.90	$33.90	$30.40
Socket with 2 USB Ports	PS2026	$39.90	$35.90	$31.90

MODULAR PANEL MOUNT BRACKETS

Compatible with many of our cigarette lighter sockets, charging outlets, and more. They use a clever modular design so you can stack multiple units together into one cutout, for a classy and uniform look. There's also a 4-way (2 x 2) mount which suits the same range of accessories. Also 100% interchangeable with the rocker-switch variant of these brackets - SK0802 / SK0804 (see page 134).

PS2806

PS2808

PS2810

	Cat.	Qty 1+	Qty 10+	Qty 50+
Modular End	PS2806	$4.50	$4.00	$3.60
Modular Centre	PS2808	$4.50	$4.00	$3.60
4 Way (2 x 2) Plate	PS2810	$7.90	$7.10	$6.30

Cigarette Lighter Plugs

CIGARETTE LIGHTER PLUG

Simply plugs into the car cigarette lighter socket to obtain 12VDC from the car battery.

- Economy grade

	Cat.	Qty 1+	Qty 10+	Qty 50+
Economy	PP2000	$1.90	$1.70	$1.50

5 AMP LEAD WITH BARE ENDS

Lead with a 5 amp fused cigarette lighter plug on one end.

- Cable length: 450mm approx
- Cable thickness: 18AWG

	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	PP1995	$3.90	$3.10	$2.70

CIGARETTE LIGHTER PLUG - FUSED

As PP2000 but with the added safety benefit of being fused. Supplied with 3A fuse.

- Recommended

	Cat.	Qty 1+	Qty 10+	Qty 50+
3A	PP2001	$4.90	$4.10	$3.70

8 AMP LEAD WITH BARE ENDS

A lead consisting of an 8 amp fused cigarette lighter plug and 5 metres of thick cable.

- 18 AWG cable

	Cat.	Qty 1+	Qty 3+	Qty 6+
8A	PP1998	$16.90	$14.90	$13.30

Cigarette lighter socket wiring
Auto cigarette lighter wiring rarely allows more than 15A to be taken from this circuit.

Cigarette Lighter Sockets

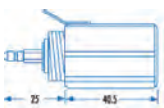
CIGARETTE LIGHTER INLINE SOCKET

- 5A max

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS2003	$4.90	$4.10	$3.70

CIGARETTE LIGHTER CHASSIS SOCKET

- Install in dash
- 21mm hole required



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS2002	$8.90	$7.90	$6.90

DASH/PANEL MOUNT CIGARETTE LIGHTER SOCKET WITH CAP, 15A

Provides a cap protected cigarette lighter socket for your boat, car, or truck. Easy to install includes 2 x countersunk screw holes for easy mounting. Rated at 15A with 6.3mm spade connections

- Dimensions: 56(W) x 31(H) x 50(D)mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS2004	$11.90	$10.70	$9.50

15A CIGARETTE SOCKET TO 8MM EYE TERMINAL

A handy lead allowing you to power your 12VDC cigarette lighter plug devices from a range of 12VDC sources. The cigarette lighter socket is attached to 16AWG 400mm long red and black lead with 8mm eye terminals on each end.

- Rated to 15A max

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT4451	$17.90	$16.10	$14.30

UNDER DASH CIGARETTE LIGHTER SOCKET WITH PROTECTIVE CAP

This socket can be mounted under a car or boat dash and features a hinged cap with protective gasket.

- Heavy duty auto cable pre-attached
- 450mm length

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS2008	$15.90	$13.70	$12.30

UNDER DASH DOUBLE CIGARETTE LIGHTER SOCKET

A dual socket mounted on a steel frame which in turn mounts under the dashboard. Heavy duty auto cable is included with in-line fuse holder and terminated with a bullet and Y connector.

- Lead length 300mm
- Self tapping mounting screws included

	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS2009	$15.90	$13.70	$12.30

CAR CIGARETTE LIGHTER SOCKET WITH LID

This weatherproof 12V car cigarette lighter socket can be flush mounted and has a springloaded lid to keep it free of dust and debris.

- Perfect for caravan, marine, 4WD or other harsher than normal applications

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS2015	$17.90	$15.90	$14.30

WEATHERPROOF CIGARETTE LIGHTER SOCKET - 15A

Suitable for marine, caravan, 4WD, camping or anywhere you need 12V power. Protected from the elements by a spring-loaded sealed cover and fully sealed electrical connection.

- Panel mounting
- 32mm mounting hole
- Flylead termination

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS2011	$17.90	$15.90	$14.30

EC5 PLUG TO CIGARETTE LIGHTER SOCKET ADAPTOR

NEW

Plugs into the EC5 socket on your jump starter and allows you to power 12V devices, including small compressors and tyre pumps. 10A continuous power handling. 180mm long. Caution: Do not use with 12V appliances that draw more than 15A current. Check rating label, user manual or with manufacturer of device for details.

- 180mm lead
- 10A current handling (15A Max)
- Connects directly to jump starters
- 18AWG Wire

	Cat.	Qty 1+	Qty 5+	Qty 10+
	PA2040	$10.90	$9.90	$8.90

Craig Hubbard likes to

think. possible.

"I believe that all aspects of life will be positively changed by a significant redesign of networking, a secure networking environment for local and internet. This will include a new platform for secure AI and IOT devices that interface to many electronic devices."

For next day delivery, or Click and Collect, see page 5

Bike Mount Power Sockets

MOTORCYCLE CIGARETTE LIGHTER SOCKET MOUNT

A motorcycle 12 volt power outlet is a great addition to your motorcycle when out touring. This is a full kit to install directly to your motorcycle to give you a 12V cigarette lighter socket. It can be used as a power outlet for spotlight, or anything that can be powered by a 12 volt battery.

- Fits the common motorcycle handle bar diameters of: 17-33mm
- 12VDC
- IP65 rated
- 1.5m cable with inline fuse

1 YEAR WARRANTY

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	PS2126	$24.90	$22.40	$19.90

MOTORCYCLE DUAL USB SOCKET MOUNT

A motorcycle Dual USB Port is a great addition to your motorcycle when out touring. This is a full kit to install directly to your motorcycle to give you a USB port. It can be used as a power outlet for GPS, mobile phone charger or anything that can be powered by a USB Socket.

- Fits the common motorcycle handle bar diameters of: 17-33mm
- 12VDC
- IP65 rated
- 1 x 1A & 1 x 2.1A 5V output (3.1A total)
- 1.5m cable with inline fuse

1 YEAR WARRANTY

length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	PS2128	$36.90	$33.20	$29.50

Cigarette Lighter Adaptors & Splitters

12VDC CAR CIGARETTE LIGHTER SOCKET 4 WAY SPLITTER WITH USB PORT

Comes with a detachable mounting base so you can mount this unit horizontally or vertically on your dash or centre console, and detach it for flexible use.

- 12VDC plug with 1.2m lead / 4 x 12VDC socket outputs
- 1 x 5VDC 1A USB port / 10A max

LENGTH	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2m	PS2019	$24.90	$22.40	$19.90

3 WAY CIGARETTE LIGHTER SOCKETS WITH USB POWER AND VOLTMETER

1 YEAR WARRANTY

You get three cigarette lighter sockets, two highcurrent 2.4A USB charging sockets, and two standard 1A USB charging sockets. Of course, a 120W maximum total applies (since that's the maximum rating of the one in your dash). The three cigarette lighter sockets aren't voltage regulated, so they'll output the same voltage as your vehicle, however the USB charging ports are regulated to 5VDC regardless of the input.

SPECIFICATIONS	PP2120
Power Input	12-24VDC
USB Output	5V, 6.8A Max. (2.4A + 2.4A + 1A + 1A)
Lighter Socket Output	12-24VDC (Unregulated to input)
Power	120W (Max.)
Safety Fuse	10A
Dimensions	110(W) x 55(D) x 31(H)mm

length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	PP2120	$33.90	$29.90	$26.90

Dash Mount USB Sockets

UNDER-DASH OR PANEL MOUNT USB SOCKET

This handy fitting enables you to position a USB outlet under a wooden, fibreglass or metal dashboard complete with ruber plug moisture/dust cover. Alternatively, you can remove the actual USB insert to panel mount the USB socket. The insert requires a 22mm Dia. hole but it will go through upto 38mm of panel so your panel can be wood if necessary. This is a very versatile fitting and you have to see it to appreciate what it is capable of.

- Output: 5VDC, 2.1A
- In-line fuse holder included
- Sealing washers/gaskets, mounting screws included
- Smart silver trim bezel included

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB	PS2016	$13.90	$12.30	$10.90

USB SOCKETS WITH WEATHERPROOF CAP

A USB power socket with weatherproof cover, suitable for mounting on motorbikes, under-dash on boats or open-top cars. Outputs 5VDC to power or charge Smartphones, Tablets, GPS, etc. Mount to almost any surface using screws, cable ties, double-sided tape, etc. (Mounting hardware not included). Supplied with 1.2m fused lead with SAE connectors for easy disconnect.

- Power input: 12/24VDC

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB 2.1A	PS2017	$27.90	$25.10	$22.30
2 x USB 3.1A with Voltmeter	PS2013	$33.90	$29.90	$26.90

USB AND 12V CIGARETTE LIGHTER POWER SOCKET (SWITCHED)

A classy little panel! It features an on/off rocker switch under a protective tamper-resistant cover. 16A rated - it will behave like a circuit breaker if current draw exceeds 16A, and can be immediately switched on again. The panel measures 130mm wide x 50mm high and will need approx. 70mm behind the panel for wiring access. The switch turns the power on to both the 10A cigarette lighter sockets and the USB sockets, of which there are 2, one 1A rated and the other 2.1A, both at 5V of course. There are no inline fuses fitted but you could reconfigure the wiring easily as everything connects by 1/4" QC tabs. Mounting is via two countersunk holes 4mm dia.

	Cat.	Qty 1+	Qty 3+	Qty 6+
	PS2036	$39.90	$35.90	$31.90

EASY-INSTALL QUALCOMM® QUICK CHARGE™ 2.0 USB CHARGER

Supplied with panel and surface mount hardware, to easily mount inside your car, caravan, truck etc. You can power it from 12-24V, suitable for cars and dual-battery trucks alike. Includes removable dust cover.

- Input: 12-24VDC
- Dimensions: 50(D) x 35(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
2 x 5VDC @ 2.1A (Max)	PS2030	$29.90	$26.90	$23.90

Dash Mount USB Sockets CONTINUED

2 PORT USB CHARGER WITH 3.1A OUTPUT, 12/24VDC

Get rid of your messy cigarette lighter car chargers, and fit something more permanent and better looking. This 2 port USB charger has one port with 1.0A for charging a Smartphone, and the 2nd port can deliver 2.1A for fast charging your Tablet. Input power compatible with 12V and 24V battery systems, with connection via 6.3mm spade terminals. Supplied with panel mount, under dash bracket, and a surface mount "hood".

- 2 port USB Charger: 36(Dia) x 50(D)mm
- Panel mount: 60(W) x 42(H)mm
- Under dash bracket: 58(W) x 51(H) x 15(D)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP3616	$28.90	$25.90	$22.90

2 PORT PANEL MOUNT USB CHARGER 3.1A OUTPUT 12/24VDC

This two port USB panel mount charger is designed for charging your electronic devices. It has a black housing with a rubber weather-flap cover to protect the USB sockets. Ideal for quickly charging a GPS, iPhone®, iPod®, PSP, mobile phones etc. Designed in the same housing as our range of laser etched auto rocker switches, enabling you to mount them side by side to give a great look to your switch panel.

- Fused, easy to install
- Input: 12-24VDC / Output: 5VDC
- Dimensions: 43(L) x 40(D) x 24(W)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP3618	$28.90	$25.90	$22.90

DUAL USB CHARGING PORTS 4.2A OUTPUT 12/24VDC WITH CAP/INDICATOR LIGHT

Supplied with flush-mount and hood/surface mount options, it provides two 2.1A USB charging outlets (combined total 4.2A). A blue LED let's you know power is available, and a dust-cap helps protect against dust and moisture when not in use.

- Versatile mounting options
- Dual 2.1A USB charging outlets
- Dust cap and power indicator

SPECIFICATIONS	PS2034
Input	12-24VDC
Output	2 x 5VDC @ 2.1A (max total 4.2A)
Weight	31g
Dimensions	50(D) x 35(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
4.2A Dual USB	PS2034	$31.90	$27.90	$24.90

SAE Power Leads

SAE TYPE PLUG TO CIGARETTE LIGHTER PLUG OR SOCKET

These units consist of the popular polarised SAE plug/skt to a line cigarette lighter socket. The socket has a rubber moisture/dust cover. The lead assembly is 450mm long and the wiring is 10A rated, unfused. Three models available.

PP2012

PP2014

PP2016

	Cat.	Qty 1+	Qty 10+	Qty 50+
SAE Plug to Battery Fused Lead	PP2012	$11.90	$10.70	$9.50
SAE Plug to Cigarette Plug Lead	PP2014	$16.90	$14.90	$13.90
SAE Plug to Cigarette Socket Lead	PP2016	$11.90	$10.70	$9.50

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Cigarette Lighter Adaptors & Extenders

FUSED CIGARETTE LIGHTER PLUG TO 2.1MM DC PLUG

Has an internal fuse & LED power indicator.

- Supplied with 3A, 3AG fuse
- Cable length 500mm
- LED power indicator

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
0.5m	PP1993	$3.90	$3.10	$2.70

FUSED CIGARETTE LIGHTER PLUG TO DC PLUG

Has an internal fuse and LED power indicator.

- Supplied with 5A, 3AG fuse
- Cable length 1.5m

Length	Dc Plug	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5m	2.5mm	PP1997	$5.90	$5.30	$4.70
1.5m	2.1mm	PP2008	$5.90	$5.30	$4.70

CAR LIGHTER SOCKET TO CLIPS

This lead simply clips onto car battery terminals and has a cigarette lighter socket on the other end.

Length	Cat.	Qty 1+	Qty 10+	Qty 50+
4m	PP2007	$11.90	$10.70	$9.50

12V 8W USB STEP-UP POWER CABLE TO CIG SOCKET

NEW

This handy cable converts the 5V from your USB powerbank to 12V, so you can power 12V lights, fans, dash cams, transceivers and other 12V devices with a cigarette lighter plug fitted. Capable of supplying 12V up to 660mA from a 5V 2A port. 320mm long cable.

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
320mm	PP1974	$10.90	$9.90	$8.90

3 WAY LIGHTER SOCKET WITH BATTERY CLIPS AND USB CHARGE PORTS

NEW

Connect this splitter directly to your battery and power up to 5 devices at the campsite, in the boat, caravan, RV, etc. At one end of the 1m long lead are large battery clips to connect your 12V or 24V battery. The splitter end has three cigarette lighter sockets that can handle up to 8A shared, and two USB ports (2.1A shared) to power your USB gadgets.

1 YEAR WARRANTY

- Large Battery Clips
- Dual USB Ports
- Suits 12/24V Batteries

	Cat.	Qty 1+	Qty 3+	Qty 6+
2 x USB	PS2039	$28.90	$25.90	$22.90

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Cigarette Lighter Adaptors & Extenders CONTINUED

10A CIGARETTE LIGHTER EXTENSION CORD - 3M

Cigarette lighter extension cord with dust cover. Extend the range of your cigarette lighter devices.
- Fuse: 10A

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3m	PP1992	$18.90	$16.90	$14.90

15A HEAVY DUTY CIGARETTE LIGHTER EXTENSION LEAD - 3M

A heavy duty waterproof cigarette lighter extension lead to extend the reach of your 12VDC devices. Features internal fuse protection with LED power indicator. Fits all 12VDC plugs & sockets. Flexible curly cord design.

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3m	PP2144	$17.90	$15.90	$13.90

CIGARETTE LIGHTER DOUBLE ADAPTOR

Incorporates a lighter plug and two inline sockets
- 150mm cable

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5m	PP2006	$11.90	$10.70	$9.50

CIGARETTE LIGHTER PLUG TO MERIT SOCKET ADAPTOR

This handy adaptor lead allows you to connect your device equipped with a merit plug into a standard cigarette lighter socket.

Length	Cat.	Qty 1+	Qty 10+	Qty 50+
3m	PP2098	$17.90	$16.10	$14.30

MERIT PLUG TO CIGARETTE LIGHTER SOCKET

Allows you to connect mobile phone chargers and other cigarette lighter plugged devices into vehicles equipped with a Merit socket.

Length	Cat.	Qty 1+	Qty 10+	Qty 50+
3m	PP2099	$15.90	$13.70	$12.30

CIGARETTE LIGHTER ADAPTOR CABLE

Contains no circuitry and allows you to power 12V devices from your car cigarette lighter socket.
- Cable length 1.8m long
- Fused
- LED power indicator. Supplied with 8 DC plugs.
  2.35 x 0.75, 3.5 x 1.35, 4 x1.7, 5.5 x1.5, 5 x 2.1, 5.5 x 2.5, 2.5mm & 3.5mm. (OD first then ID)

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	PP1996	$11.90	$10.70	$9.50

REPLACEMENT POWER LEAD FOR THERMOELECTRIC COOLER/WARMERS

A replacement DC power lead to suit most common thermoelectric cooler/warmers which have the notched rectangular shape DC power input.
- Can fit into cigarette or merit sockets
- 1.8m long

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	PP1986	$24.90	$22.40	$19.90

HEAVY DUTY 10A CIGARETTE POWER EXTENSION LEAD - 5M

This cigarette power extension lead has been specifically designed to carry 10A continuous current with minimal voltage drop. This allows you to move your DC fridge/freezer and other DC equipment some distance away from your battery, whilst minimising low voltage protection issues. Very handy on the campsite or in your caravan. Fitted with a convertible cigarette/merit plug and high current cigarette socket, and made with 12AWG tinned copper cabling.

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
5m	PP2151	$59.90	$53.90	$47.90

12VDC CIGARETTE LIGHTER TWIN SOCKET

Allows you to run two 12V appliances from the one socket.
- Input voltage: 12-24VDC
- Output voltage: 12-24VDC
- Output current: <6A
- LED indicator

	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP2005	$11.90	$10.70	$9.50

12/24VDC CIGARETTE LIGHTER SOCKET SPLITTER WITH 2X USB PORTS

Power two 12V accessories and 2 x USB devices at the same time. Features a fused cigarette lighter plug on a 650mm lead, and mounting holes for a permanent installation.
- Input: 12/24VDC
- Output: Cigarette Lighter Sockets:
  2 x 3A max each / USB Ports:
  2 x 5V 2.1A total
- Dimensions: 114(L) x 50(D) x 33(H)mm

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
6.5m	PP2136	$19.90	$17.90	$15.90

Simon Dante likes to

think. possible.

"Facial recognition will evolve to know your identity and preferences with shopping and unlocking a number of devices. It will become your passport and currency to life. With inbuilt AI and Liveness it will keep learning so all you need is your face."

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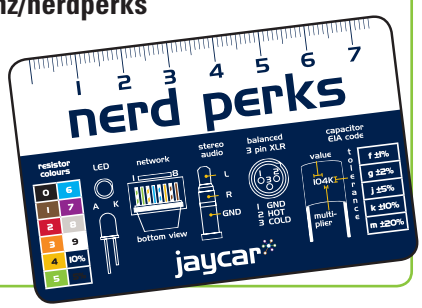

Smart bulbs "Wi-Fi":

Using Wi-Fi, you can control these Smart Bulbs without a hub or additional hardware. Just open the Kasa app on your smartphone to manage the smart bulb remotely, anytime and anywhere.

They can also pair with Google® Assistance for voice control, and the free Kasa app lets you control the smart Wi-Fi bulb from any Android® (4.1 and higher) or iOS (iOS 8 and higher) device.

- Manage Remotely – Control your lights from anywhere with your tablet or smartphone using the free Kasa app (iOS, Android)
- Fine-Tune Lighting – Dim brightness and fine-tune light appearance from soft white (2700k) to daylight (6500k)
- Voice Control – Pair to Google® Assistant to enable voice control
- Circadian Mode – Automatically matches light appearance to time of day
- Monitor Power – Track real-time energy used to stay informed
- Save Energy – Reduce energy use up to 80% without brightness or quality loss compared to a 60W incandescent bulb
- No Hub Required – Connect the bulb to your Wi-Fi at home

3 YEAR WARRANTY

tp-link

Wi-Fi

LB100 WITH DIMMABLE 600 LUMEN

The LB100 has 600 lumens brightness with dimmable white light, which can provide you stable customised lighting. Set schedules to turn on/off the Smart Bulbs at any chosen time for your convenience. For example, you can set the bulbs to turn on every morning to wake you up or every dusk to light up your room automatically.

LB120 WITH TUNEABLE WHITE

With adjustable brightness and tunable white temperature, you can easily set the LB120 to suit your mood. Schedule the LB120 Smart Bulbs around your life and have them to turn on, off, and adjust their light appearance to suit your preference. They can even adjust automatically to changing sunset and sunrise times so it comes on when it gets dark and turns off as the sun comes up.

LB130 WITH COLOUR CHANGE

Schedule the LB130 Smart Bulbs around your life and have them to turn on, off, and adjust their light appearance to suit your preference. They can even adjust automatically to changing sunset and sunrise times so it comes on when it gets dark and turns off as the sun comes up. Change the colour and intensity as you wish, navigate the tunable white light from warm to cool until you feel comfortable. Smart Wi-Fi bulbs can be controlled separately or as a group, and your favourite settings can be saved as scenes accessible in Kasa app.

- Compatibility – Compatible with Android, iOS, Amazon Alexa and Google® Assistant

ANDROID APP ON Google play

works with the Google Assistant

amazon alexa

	Cat.	Qty 1+
LB100 Dimmable	YN8452	$56.90
LB120 Tuneable White	YN8450	$79.90
LB130 Colour Change	YN8448	$119.00

LED Downlight Kits - 240VAC

p.436 - smart home display hub

8W DIMMABLE LED DOWNLIGHT KITS - 240VAC

Fully dimmable with traditional electronic light dimmers or our LED dimmer PS4084, suitable for a ceiling cut out of 75-92mm and supplied with a 2-pin mains lead. Fantastic for DIY replacement of existing halogen downlights, or a totally new installation. Powered directly by 240VAC so there is no need for external LED drivers. Fully approved for electrical safety and even approved for the NSW 'ESS' and Victoria 'VEET' commercial lighting energy saving schemes (electricians take note!).

VIRIBRIGHT
The bright side of light

SPECIFICATIONS	SL2300
Power	8W
Input Voltage	240VAC
Lumens	550
Equivalent Halogen	50W
Colour	Warm white
Colour Temp.	2800K
Beam Angle	80°
CRI	>85
Ceiling Cutout	75-92mm

1 YEAR WARRANTY

Lumens	Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
550	Warm White	SL2300	$22.90	$20.90	$17.90

Nick Adams likes to

think. possible.

"Aircraft are constantly evolving through greater computerised creating a harmony between pilots and machine, making a pilots life easier allows him to focus 100% on the safety of the passengers. Not to mention I am uploading this with the internet wifi I helped install on this aircraft!!!"

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LED Replacement Lamps

MR11 LED REPLACEMENT LIGHT 15 X 2835 LEDS 120° - 12VAC/DC

High brightness MR11 LED globes used for lighting caravan & marine interiors, some desk lamps, and also used in retail shop display cabinets. High lumen level, available in cool and warm white.

SPECIFICATIONS	BOTH MODELS
Fitting	MR11
Input Power	12VAC/DC, 2.2W
Brightness	230 lumens
Beam Angle	120°
LED Source	15x 2835 SMD LEDs
Dimensions	34(Dia.) x 29(D)mm

1 YEAR WARRANTY

Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
230	Cool white	ZD0650	$19.90	$17.90	$15.90
230	Warm white	ZD0652	$19.90	$17.90	$15.90

G4 LED REPLACEMENT LIGHT, 120° - 12VAC/DC

An easy replacement for a G4 2-pin type halogen globe that uses significantly less power, and lasts much longer. Great for benchtop lighting, reading lamps, and a whole host of other applications.

SPECIFICATIONS	BOTH MODELS
Fitting	G4
Power	2.2W, 12VAC/DC
Light Output	230 lumens
Lens Angle	120°
LED Source	15x 2835 SMD LEDs
Dimensions	27mm Dia.

1 YEAR WARRANTY

Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
230	Cool white	ZD0655	$18.90	$16.90	$14.90
230	Warm white	ZD0657	$18.90	$16.90	$14.90

G4 LED WATERPROOF GLOBES - 12VDC

Low wattage replacement G4 LED lamps suitable for use in recreational vehicles. Completely encapsulated in resin, making them waterproof.

SPECIFICATIONS	ZD0564	ZD0566
Colour	Warm white	Cool white
Power	1.5W	1.5W
Light Output	100 lumens	110 lumens
Input Voltage	12VAC/DC	12VAC/DC
Colour Temp.	3000K	6500K
Dimensions	35(L) x 9.5mm	35(L) x 9.5mm

1 YEAR WARRANTY

Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
100	Warm white	ZD0564	$19.90	$17.70	$15.70
110	Cool white	ZD0566	$19.90	$17.70	$15.70

tech talk LED Information

Power supply requirements for LED lamps or lighting modules, such as our MR16 LED downlight replacement globes, can vary considerably and it is essential that a suitable power supply is used. Switchmode transformers, or "electronic transformers" that are designed to run halogen lights, should not be used with LED lighting modules or lamps unless they are specifically certified to do so. LED lamps are compatible with all types of magnetic (linear) transformers, but not all types of switchmode transformers. Most halogen lamp switchmode transformers require a minimum load to function correctly & output a high frequency pulse train based on the load requirements. As LED lamps draw a fraction of the current of an equivalent halogen lamp (typically ~1/10th), this usually results in problems such as flickering, strobing, or in some cases, no light at all. It may also reduce the life expectancy of the LED lamp. It is essential the maximum input voltage of the LED lamp or module is not exceeded and the power supply can deliver the necessary current required in a linear manner. If using switchmode or electronic power supplies, make sure they are designed for use with LED lamps, otherwise use a linear power supply or a DC output power supply.

LED Replacement Lamps For Caravans

LED REPLACEMENT LAMP FOR 2D FLUOROS IN CARAVANS

One of the most common lights used in caravans up until quite recently, is the 16W 2D fluoro. The problem with these is not only do they draw a lot of power for the light they produce, but they also blow very frequently, take a long time to "warm up", and they aren't very pleasant on the eye. This LED replacement lamp solves all that! The circular shape metal core PCB is backed with the same moulding as a normal 2D fluoro, so it fits into the same light socket - all you have to do is bypass the fluoro ballast and supply the lamp with 12VDC directly. No need to carry spare globes as the LED lamp is impervious to vibrations, and the LEDs are rated to last over 50,000 hours.

SPECIFICATIONS	ZD0670
Input Voltage	12VDC
Power	9W
Lumens	900
Beam	180°
LED Type	60x2835 SMD
Dimnsions	150(Dia.)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Cool White	ZD0670	$39.90	$35.90	$31.90

Lighting Accessories

ELECTRONIC TRANSFORMERS FOR LED LIGHTS

These electronic transformers are designed to be used with LED lighting products that take a 12V power source, for example our LED MR16 replacement globes, and provide the same kind of efficient power delivery and compact size as a normal electronic transformer. Electronic transformers that are intended for use with halogen downlights are not suitable for use with LED-replacement lighting products, since using them often causes flickering and dramatically reduces the life expectancy of the LED light. They deliver a constant 12VDC and feature short circuit, over temperature, over load and spike protection. Suitable for domestic and commercial applications, they are perfect for combining with our LED MR16 globes to replace those power-hungry halogen downlights.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Watt	MP3360	$29.90	$26.90	$23.90
20 Watt	MP3362	$36.90	$33.20	$29.50

BASE

Base to suit both 35mm and 50mm lamps.

- Size 17(Dia.) x 9(H)mm
- Cable length 120mm
- Rating 100W 25V

	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL2735	$5.90	$5.20	$4.70

Fluorescent Adaptors

20W FLUORESCENT TUBE ADAPTORS T5-T8

1 YEAR WARRANTY

Easily convert traditional T8 fluorescent lighting to more energy efficient T5 series tubes. T5 tubes output the same light level as standard T8 tubes while consuming up to 40% less power. By comparison, LED replacements for fluorescent lights use similar power, and/or produce less light, and cost SEVERAL times more. With T8 tubes commonly found in large area lighting systems for offices, schools, small businesses and warehouses the savings achieved using these adaptors adds up very quickly. Installation couldn't be more simple - just remove the old T8 tube & starter, replace with the supplied starter-fuse, attach the two adaptor ends to your new T5 tube, install as per usual, & enjoy the power savings!

NOTE: Not suitable in T8 fittings with electronic ballasts.

Limited Stock

	Cat.	Qty 1+
Replaces 20W Tubes	SL2746	$7.30

LED Power Supplies

In efforts to conserve energy globally, Mean Well has consistently introduced new series of LED Power Supplies. Our range includes a wide range of products which offer higher efficiency, lower power dissipation, compliance with the latest domestic and international lighting regulations. Mean Well LED Power Supplies are ideally suited for street lighting, architectural lighting, decorative lighting, embedded lighting, indoor lighting, stage and theatre lighting and LED signage. Because of the robust design and high protection levels against dust and moisture, they can be installed in many indoor and outdoor LED applications.

NON-DIMMABLE - APV SERIES

The APV series is ideal for users looking for a low cost, reliable constant voltage LED driver for use in indoor applications. All models are subjected to a 100% full load burn in test and these LED drivers are backed with a 2 - year warranty. 94V-0 flame retardant plastic is used in the manufacture of the plastic housing and all models feature a full suite of safety protections including short circuit, overload and over voltage protection. The APV-12E and APV-16E Mean Well LED drivers are supplied with a 1.8m input lead and plug.

- 180~264VAC input only
- Rectangular plastic case with IP42 level
- Low cost, small and compact size
- Constant voltage mode for APV-E series
- Suitable for indoor LED lighting and moving sign applications

2 YEAR WARRANTY

SPECIFICATIONS	MP3371	MP3372	MP3373
Model No.	APV-12E-12	APV-16E-12	APV-16E-24
Output Voltage	12VDC	12VDC	24VDC
Tolerance	+/- 5.0%	+/- 5.0%	+/- 5.0%
Ripple & Noise	120mV	120mV	150mV
Output Current	1A	1.25A	0.67A
Efficiency	81%	79%	82%
Input Voltage	180 ~ 264VAC	180 ~ 264VAC	180 ~ 264VAC
Input Frequency	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Cold Start Inrush Current	70A	50A	50A
Weight	80g	100g	100g
Dimensions L x W x D	77 x 40 x 29mm	77 x 40 x 29mm	77 x 40 x 29mm

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
12W	12V	1A	MP3371	$33.90	$29.90	$26.90
16W	12V	1.25A	MP3372	$45.90	$40.90	$35.90
16W	24V	0.67A	MP3373	$45.90	$40.90	$35.90

DIMMABLE - LPF SERIES

DIMMABLE

5 YEAR WARRANTY

The Mean Well LPF-D series is a plastic bodied - constant current dimmable LED driver. It comes with a 5-year warranty and 1.8m input lead and plug. Models in this range have an IP67 ingress protection rating making them suitable for outdoor applications in tougher environments. These can be used in LED panel lighting, LED downlights, LED decorative lighting, LED tunnel lighting and many other applications.

- 90~305VAC input, built-in active PFC function
- Fully isolated plastic case with IP67 level
- Class II design, without FG
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance)
- Suitable for LED lighting and moving sign applications
- Supplied with 1.8m SAA approved input lead

SPECIFICATIONS	MP3374	MP3375	MP3376	MP3377
Model No.	LPF-40D-12AU	LPF-40D-24AU	LPF-60D-12AU	LPF-60D-25AU
Output Voltage	12VDC	24VDC	12VDC	24VDC
Tolerance	+/- 5.0%	+/- 5.0%	+/- 5.0%	+/- 5.0%
Output Current	3.34A	1.67A	5.0A	2.5A
Efficiency	84%	87%	86%	89%
Input Voltage	90 ~ 305VAC	90 ~ 305VAC	90 ~ 305VAC	90 ~ 305VAC
Input Frequency	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Cold Start Inrush Current	50A	50A	55A	55A
Weight	450g	450g	450g	450g
Dimensions L x W x D	162.5 x 43 x 32mm			

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
40W	12V	3.34A	MP3374	$94.90	$84.90	$75.90
40W	24V	1.67A	MP3375	$94.90	$84.90	$75.90
60W	12V	5A	MP3376	$99.90	$89.90	$79.90
60W	24V	2.5A	MP3377	$99.90	$89.90	$79.90

LED DRIVERS - ELG SERIES

The ELG series is Mean Well's latest generation of IP67 weather proof LED drivers that come with three in one dimming options.

- 0-10V dimming
- PWM signal dimming
- Resistance dimming
- 100~305VAC input range
- Built-in active PFC function
- No load/standby power consumption <0.5W
- Metal case, IP67 design for indoors or outdoors
- Function options: 3 in 1 dimming (0~10VDC or 10V PWM signal or resistance, dim-to-off);
- Suitable for LED street lighting & outdoor LED lighting
- Constant voltage & constant current mode output
- Supplied with 1.8m SAA approved input lead

**Note: A PWM signal is used to vary the current amplitude of the output, this LED driver does not have a PWM output.*

MP3378

DIMMABLE

MP3380

SPECIFICATIONS	MP3378	MP3379	MP3380	MP3381
Model No.	ELG-75-12BAU	ELG-75-24BAU	ELG-150-12BAU	ELG-150-24BAU
Output Voltage	12VDC	24VDC	12VDC	24VDC
Tolerance	+/- 3.0%	+/- 3.0%	+/- 3.0%	+/- 3.0%
Output Current	5.0A	3.15A	10A	6.25A
Efficiency	85%	88%	88%	89%
Input Voltage	100 ~ 305VAC	100 ~ 305VAC	100 ~ 305VAC	100 ~ 305VAC
Input Frequency	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Cold Start Inrush Current	50A	50A	65A	65A
Weight	800g	800g	950g	950g
Dimensions L x W x D	180 x 63 x 35.5mm	180 x 63 35.5mm	219 x 63 x 35.5mm	219 x 63 x 35.5mm

5 YEAR WARRANTY

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
75W	12V	5A	MP3378	$119.00	$107.00	$95.00
75W	24V	3.15A	MP3379	$119.00	$107.00	$95.00

Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
150W	12V	10A	MP3380	$139.00	$124.90	$110.90
150W	24V	6.25A	MP3381	$139.00	$124.90	$110.90

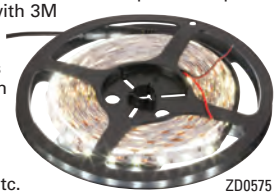
For next day delivery, or Click and Collect, see page 5

Flexible LED Strip Lighting

FLEXIBLE ADHESIVE LED STRIP - 5M ROLL

When the absolute brightest light possible isn't what you are looking for, then these competitively priced flexible LED strips are what you are looking for. These strips still use the same super efficient 5050 SMD LED package as our ultra bright LED strips, but each LED has around 20-40% less light output that our ultra bright versions.

Everything else is the same; there are 60 LEDs per metre, the flexible strip can be cut into sections every third LED to create separate strips to your desired length, the strip is backed with 3M brand adhesive tape, and each section had solder pads to enable you to wire up to your desired configuration. Sold as a full 5 metre reel in cool white and warm white colours, they are an excellent solution to thousands of lighting applications such as display cabinets, under bench lighting, accent lighting, caravan camping, 4WD, mood lighting, etc.



ZD0575

SPECIFICATIONS	ZD0575	ZD0577
Voltage	12VDC	
Colour	Cool White	Warm White
Current Per Metre	1100mA	
Lumens Per Metre	970lm	950lm

	Price Per	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	5m Roll	ZD0575	$59.90	$53.90	$47.90
Warm White	5m Roll	ZD0577	$59.90	$53.90	$47.90

ULTRA BRIGHT FLEXIBLE ADHESIVE STRIP - PER SEGMENT

These flexible adhesive LED strips are made using the highest brightness 5060-SMD type LEDs, and feature 60 of these LEDs per metre of stripping. Each strip comes as a 5m length, which can be broken down into individual 5cm sections with 3x LEDs that can be individually soldered to apply power. We understand that not all applications require a full 5m length, so we cut them to length and sell by the 5cm section, so that you can get the exact length you require. The strip itself is a flexible circuit board, backed with quality 3M brand adhesive tape to ensure a long term adhesion to your mounting surface. Powered by 12VDC.

Two types available:

Note: Compatible with our Aluminium Channel System HH8547, HH8548 & HH8549

ZD0570

SPECIFICATIONS	ZD0570	ZD0572
Voltage	12VDC	
Colour	Cool White	Warm White
Current Per Segment	50mA (1000mA per metre)	
Lumens Per Metre	1200	
Dimension Per Section	50 x 10mm	

	Price Per	Cat.	Qty 1+	1 Metre	5 Metres
Cool White	50mm segment	ZD0570	$3.65	$53.00	$179.00
Warm White	50mm segment	ZD0572	$3.65	$53.00	$179.00

MOTION LED STRIP - 1M

Powered by just 4 x AAA batteries with 30 x LEDs on a flexible strip! Simply switched on and off using the controller, or better still; use the internal motion detector to automatically switch on when there's movement detected!

SPECIFICATIONS	ZD0586
Lumens	300
Beam Angle	120°
Batteries	4 x AAA (not included)
Power	5VDC @ 2W
LED Life	> 25000 Hours
Weight	56g (excluding batteries)
Dimensions	1m(L) x 7mm(W)

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ZD0586	$22.90	$20.90	$17.90

MOTION ACTIVATED UNDER-BED LIGHTS

This is ingenious. It essentially contains two long LED strips, which are connected to motion sensors. Simply mount them under your bed. If you get up during the night, or your kids come and greet you before the sun rises, it will automatically create a soft glowing light under your bed to help you see what's going on. If there's no more movement, it will automatically switch off after around 25 seconds. They're mains powered so there's no batteries or recharging to worry about, and each strip has 45 LEDs to create a soft glow. The LEDs are very warm white (around 1600 Kelvin) so they're not jarring at night either. Of course you can override the motion sensor to simply create nice bedroom mood lighting if you like too. Includes everything you need including mains power supply.

- Motion sensor or on/off switch
- 2 x 45 LEDs 1.5m Long
- 3m sensing distance

SPECIFICATIONS	ZD0588
LED Strip Power	12VDC (Max 3W)
Lumens	240
Dimensions	1.5m(L) x 7mm(W)

	Length	Cat.	Qty 1+	Qty 5+	Qty 10+
	1.5m	ZD0588	$45.90	$40.90	$35.90

USB POWERED TRIMMABLE RGB LED STRIP - 1M

Featuring 30 RGB LEDs along a 1m strip, for great light output with colour-changing dazzle. Attach it to your laptop, TV, a wall, wherever you like! Unlike many designs, this light strip can be trimmed down at any of the 30 points between the 30 LEDs, so you can "fit it" to whatever you like. A small remote inline with the power lead provides light mode, colour-change, and on/off controls. Powered from a spare USB port using the provided 1m USB lead.

- IP67 weatherproof
- Customisable length
- Bright RGB LEDs

SPECIFICATIONS	ZD0571
Lumens	Up to 850 per metre (varies with colour)
Voltage	5-24VDC
Weight	60g
Dimensions	LED Strip: 10(W)mm x 1(L)m, USB Cable Length: 1m

1 YEAR WARRANTY

	Length	Cat.	Qty 1+	Qty 5+	Qty 10+
RGB	1m	ZD0571	$22.90	$20.90	$17.90

RGB LED FLEXIBLE STRIP LIGHT - 5M ROLL

This is an extremely versatile lighting solution. The 150 RGB LEDs allow you to change the colour to suit your mood, match your shoes, or just change it just because you want to. It uses a handy remote control for all on/off/colour selections, and you can change the brightness of any colour too. You can even trim the LED strip to a shorter length if required. Amazing! Totally flexible and self-adhesive strip. Mains power supply included.

- Remote controlled
- 5m Long
- Self-adhesive
- 150 LEDs

SPECIFICATIONS	SL3942
Power	12VDC @ 24W Max
Beam Angle	120°
Weight	203g
Dimensions	5m(L) x 10mm(W)

	Length	Cat.	Qty 1+	Qty 5+	Qty 10+
RGB	5m	SL3942	$69.90	$62.90	$55.90

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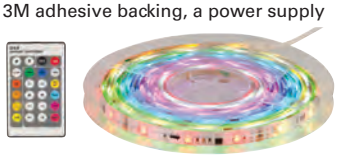
Flexible LED Strip Lighting CONTINUED

RGB LED FLEXIBLE STRIP LIGHTING KIT WITH EFFECTS

An easy to setup RGB LED strip that can produce an array of dazzling effects. The device controls each bank of 3 x LED's individually to create effects that emulate flowing water, a shooting star, curtains opening, a colour gradient and more. Using the remote control you can switch all LEDs to white, red, green, blue, yellow, purple etc. adjust the brightness or set it up to cycle through all the different effects. Lighting applications include cinema foyers, nightclubs, casinos etc. The kit includes a 5m reel of high brightness RGB LEDs with 3M adhesive backing, a power supply remote control, and a joiner to connect LED strips together.



Kit contains:
- 5m RGB LED lighting strip
- Infrared remote control
- Power supply
- LED strip joiner

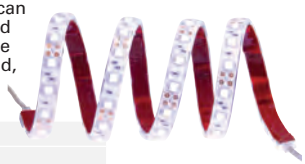
SPECIFICATIONS	SL3954
Input Voltage	12VDC
5M Reel Contains	150 X RGB LEDs
Controller Dimensions	94(L) x 58(W) x 25(H)mm

1 YEAR WARRANTY

	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
RGB	5m	SL3954	$109.00	$97.90	$86.90

ULTRA BRIGHT IP67 WEATHERPROOF LED FLEXIBLE STRIP LIGHTS

Fully weatherproof yet flexible. They're made from an array of ultra high brightness 5050 SMD-type LEDs, 60 to each metre of strip light. Everything's encapsulated in a protective casing to keep the dust and water out. Weatherproof male / female connections are provided at either end. 12VDC powered. The 1m version can be daisy-chained (up to 5 together), and it's available as a single 5m run too. The 5m version should not be daisy chained, instead run an individual power connection to each 5m length.



SPECIFICATIONS	BOTH
Voltage	12VDC
Colour	Cool White
Current	1000mA per metre
Lumens	850 per metre
LEDs	60 x 5050 per metre
Dimensions	10(W)mm

1 YEAR WARRANTY

	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	1m	ZD0579	$49.90	$44.90	$39.90
Cool White	5m	ZD0576	$94.90	$84.90	$75.90
Cigarette Lighter Power Lead		PP1981	$24.90	$22.40	$19.90

4 X RGB LED STRIPS WITH CONTROLLER FOR CAR INTERIOR

NEW

Add some colour and lighting effects to your car interior with these bright RGB LED light strips. The kit includes four LED strips with twelve LEDs in each, a controller and a remote control. The LEDs can be remotely controlled to change between eight different colours with four different lighting patterns. The lights can be set to change with the beat of the music, and the brightness and speed can also be adjusted.

SPECIFICATIONS	SL3948
Power:	12VDC
LED Quantity:	4 X 12 5050 SMD LED
Standby power consumption:	<1W
Output current:	<2A (per loop)
Colours:	Red, Green, Blue, White, Orange, Yellow, Cyan, Purple
Dimensions:	Controller: 63(L) × 35(W) × 22(D)mm
Remote Control:	84(L) × 51(W) × 7(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL3948	$22.90	$20.90	$17.90

Special Application Lighting

LED GARDEN LIGHT

This is a convenient and fun way to light up your home or garden to get things into party mode! There's no need to hang hooks and find the blown globes. This self-contained unit features an extremely bright 4W RGB LED. You'll be dazzled by a great assortment of illuminating light patterns in a mesmerising display. Mains powered, IP65 weatherproof housing. Includes a garden stake, stand, and wall-mounting kit.
- Dazzling light patterns
- Extremely bright 4W RGB LED
- IP65 Waterproof

SPECIFICATIONS	SL3403
Power	5V @ 1.2A
Power Consumption	6W
LED	1 x 4W RGB
IP Rating	IP65
Weight	170g (Excluding Stand/Stake)
Dimensions	125(D) x 155(H) x 100(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL3403	$79.90	$71.90	$63.90

RGB UNDERWATER LIGHT 3XAAA

Add some colour with our RGB LED underwater light to your fish tank, vase or any other clear object you would like to light up. The provided IR remote allows you to select up to 12 different colours, 3 different light patterns (solid, fade and jump), and adjust the brightness. The light is IP65 rated with a max depth of 2m.
- Requires 3 x AAA batteries
- Up to 8 hours runtime on solid colour
- Dimensions: 70(Dia) x 28(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL3933	$22.90	$20.90	$17.90

RECHARGEABLE UNDERWATER LED LIGHT - RGB

NEW

This is a clever underwater light that is designed for temporary use in all sorts of places. It has 8 single-colour and 2 colour-changing modes, so you can set it to your mood. And a magnetic base lets you attach it to any metal surface. Requires 3 x AA batteries.
- IP68
- 110(Dia.) x 45mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Magnetic	SL3945	$56.90	$50.90	$44.90

free boxes!

MOVING HOUSE? NEED SOMETHING FOR STORAGE?

In the course of running our business, we go through thousands of stout cardboard boxes that become surplus to our needs. If you need a box - even several - just ask and we will probably have half a dozen or so that could be suitable for you. They are FREE and you are doing yourself and us a favour by recycling them.

tech talk Strip Lighting

Our range of LED strip lights are made using some of the most common type of SMD LEDs used in LED lighting products; the 3528 type, and the 5050/5060 type. Their model designations actually come from their footprint dimensions: 3528 = 3.5x2.8mm, 5050 = 5.0x5.0mm, and 5060 = 5.0x6.0mm. The 3528 type is a single LED emitter type in a very compact package, whereas the 5050 and 5060 type are commonly referred to as "triple-chip" due to having three LED emitters built into the one package. The 3528 typically offers superior lumen performance per emitter and greater light efficiency than 5050/5060, but the 5060/5060 triple-chip types are more cost effective due to lower manufacturing and production costs when built into a finished product.

For next day delivery, or Click and Collect, see page 5

Electroluminescent (EL) Wire

WHITE 3M EL WIRE LIGHT ELECTROLUMINESCENT LIGHTING

Add amazing colourful lighting to your party, costume, signage, decorations, etc. These 3m long flexible wires can be bent into most shapes and glow (similar to a neon light) when power is applied. Power is provided using the compact EL controller (SL2440 sold separately), which runs off 2 x AA batteries, making it extremely versatile and portable. At only 2.3mm diameter it can be easily stitched into clothing or fastened with cable ties. Excess length can be cut off to suit your application (note: can't be re-joined). Up to 3 x EL wires can be connected at the same time to the same controller using 2 or 3 way splitters (sold separately).

- Dimensions: 3m length x 2.3mm diameter
- Requires SL2440 EL Wire Power Supply and Controller (sold separately)

Splitter modules sold separately:

- SL2441 2-way 350mm
- SL2443 3-way 350mm

		Cat.	Qty 1+	Qty 5+	Qty 10+
White		SL2442	$10.90	$9.90	$8.90
Red		SL2444	$10.90	$9.90	$8.90
Blue		SL2448	$10.90	$9.90	$8.90
Green		SL2446	$10.90	$9.90	$8.90

EL WIRE POWER SUPPLY AND CONTROLLER ELECTROLUMINESCENT

Small enough to fit in your pocket or stitched into a costume, and can power up to 3 x EL wires using the splitters available separately. Features a pocket clip and a push button to switch between constant or two flash speeds.

Compatible 3m lengths of EL wire sold separately:

Compatible splitter modules:

- SL2441 2-way 350mm
- SL2443 3-way 350mm

Note: The controller circuit may emit a high pitch sound when in operation. This is normal due to the built-in inverter.

SPECIFICATIONS	SL2440
Batteries	Requires 2 x AA batteries (Alkaline or Lithium recommended)
Burn time	Up to 10 hours
Dimensions	90(L) x 32(W) x 27(D)mm (Including pocket clip)

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL2440	$10.90	$9.90	$8.90

2 OR 3 WAY SPLITTER FOR EL WIRE

Connects the SL2440 EL wire power supply and controller to multiple lengths of EL wire. Available in 2-way or 3-way versions with each outlet capable of connecting a full 3m length of EL wire*. Power supply/controller and EL wire lengths sold separately.

Two models available:

- SL2441 2-way 350mm
- SL2443 3-way 350mm

Compatible 3m lengths of EL wire sold separately:

** Note: Overall light output will drop when using splitter with full 3m lengths compared to direct connection to power module. To maintain maximum light output the total length connected to the splitter needs to be under 5m.*

	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Way Splitter for EL Wire	SL2441	$3.30	$2.90	$2.60
3 Way Splitter for EL Wire	SL2443	$3.30	$2.90	$2.60

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Solid LED Strip Lighting

SOLID LED STRIP LIGHTS - 12VDC

An efficient, bright and affordable LED lighting solution, which is safe and easy to install. Each strip features wide angle, high brightness SMD LEDs which are powered by 12VDC. They are fixed easily using the strong 3M brand self adhesive backing tape or mounted into a range of aluminium and plastic extrusions and diffusers available separately. Each 500mm length can be snapped into individual segments and are powered by either 12VDC or 24VDC. Applications include under cabinet kitchen bench lighting, hallway or mood lighting, arine/caravan/motorhome lighting, commercial strip lighting, retail shop fit outs, and many many more. Available in 8mm and 11mm widths, 12VDC

- 8mm strips fitted with 3528 single chip SMD LEDs
- 11mm strips fitted with 5050 tri-chip SMD LEDs
- Strips can be snapped into individual segments and powered individually
- Strips can be integrated with our aluminium and plastic extrusions and diffusers

SPECIFICATIONS	ZD0461	ZD0552
Voltage	12VDC	12VDC
Colour	White	White
Current	200mA	500mA
Lumen Output	150	390
LED Quantity	30 x 3528	30 x 5050
No. Of Segments	10	10
Light Angle	120°	120°
Dimensions	500 x 8mm	500 x 11mm

1 YEAR WARRANTY

LEDs	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
30x3528	Cool White	ZD0461	$19.90	$17.70	$13.70
30x5050	Cool White	ZD0552	$29.90	$26.90	$20.90

IP65 LED LIGHTING MODULE STRINGS - 12VDC

A very flexible and weatherproof (IP65) solution for low power lighting; use for backlighting of signs, illuminating stairwells, marine lighting, caravan lighting, etc. Each string is supplied as a 1m length of wire, with ten "modules" containing three high brightness SMD LEDs along the length of the string. You can cut the string to supply power to each module separately if you wish, allowing for a whole host of different applications. Simply provide 12VDC power and you are in business. Available in standard 3528-LED or ultra-bright 5050-LED versions, in cool white or blue colours depending on the model you choose.

SPECIFICATIONS	ZD0590	ZD0593	ZD0594
Voltage	12VDC	12VDC	12VDC
Colour	Cool White	Blue	Cool White
Current	300mA Total	200mA Total	600mA Total
Lumen Output	13.5/135 total	5.1/51 total	50/500 total
LEDS	10x (3x3528)	10x (3x3528)	10x (3x5050)
Light Angle	120°	120°	120°
Dimensions	71x15x5.5mm	71x15x5.5mm	83x17x6mm

LEDs	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3x3528	Cool White	ZD0590	$20.90	$18.80	$14.60
3x3528	Blue	ZD0593	$20.90	$18.80	$14.60
3x5050	Cool White	ZD0594	$36.90	$33.20	$25.80

LINKABLE ALUMINIUM LED STRIP LIGHTS - 12VDC

Connect multiple lights together with the included connectors to match your desired length and application. Supplied with a 100mm DC plug with lead for hardwiring, connecting adaptor and cable as well as a right angle adaptor. Screw mounting holes provided on the ends for easy installation in three different ways - 180˚, 360˚ and 90˚.

- Suitable in-line Dimmer use ST3938
- Colour: Cool white
- Input: 3.5 x 1.35mm DC socket centre positive

SPECIFICATIONS	ST3934	ST3936
Power Rating	12VDC 5W	12VDC 9W
Colour Temperature	6000-6500K	
Lumens	280	520
Dimensions	324(L) x 30(W) x 12(H)mm	524(L) x 30(W) x 12(H)mm

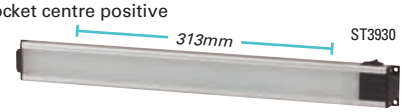
1 YEAR WARRANTY

LEDs	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
48	Cool White	ST3934	$28.90	$25.90	$22.90
84	Cool White	ST3936	$45.90	$40.90	$35.90

LED LIGHT STRIPS WITH SWITCH - 12VDC

A quick and easy LED strip light solution. The LED strip is pre-assembled in the channel diffuser with an integrated switch encased in attractive anodised aluminium alloy. They feature a generous beam angle with evenly distributed light thanks to the frosted white diffuser. Great for use on window displays, restaurant foyers, showrooms, hotels, and caravan or RV applications. Four mounting screws are included for fast and easy installation. Available in 48 and 84 LED strips.

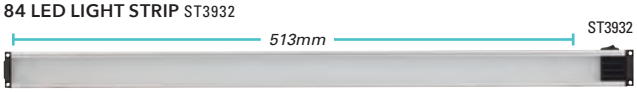
- Input: 3.5 x 1.35mm DC socket centre positive
- LEDs: 3528 SMD
- 4 x mounting screws included



Two models available:

48 LED LIGHT STRIP ST3930

84 LED LIGHT STRIP ST3932



SPECIFICATIONS	ST3930	ST3932
Power Rating	12VDC 5W	12VDC 9W
Colour Temperature	6000-6500K, Cool White	6000-6500K, Cool White
Lumens	280	520
Dimensions	313(L) x 30(W) x 12(H)mm	513(L) x 30(W) x 12(H)mm

Suitable accessories:
12VDC/24VDC LED IN-LINE DIMMER SWITCH
CAT. ST3938

1 YEAR WARRANTY

LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
48	313mm	ST3930	$29.90	$26.90	$23.90
84	513mm	ST3932	$46.90	$42.40	$37.40

LED ALUMINIUM LIGHT STRIP WITH SWITCH - 240VAC

A range of LED aluminium light in elegant aluminium strips. A simple and straight forward solution; each strip is terminated with a 240V plug and lead. No time consuming wiring and costly electricians are required. Simply plug in to the mains outlet and you have instant lighting solution. It has a built-in switch and is IP44 rated making it ideal for kitchen, under cabinets, book cases, bathroom lighting applications. Power consumption is significantly lower than fluorescent alternatives.

- LED Light strips meet SAA Safety approvals.

SPECIFICATIONS	ST3946	ST3948
Voltage Input	240VAC	240VAC
IP Rating	IP44	IP44
Colour Temperature	Cool white	Cool white
LEDS	48	78
Lumens	650	950
Length	850mm	1200mm

1 YEAR WARRANTY

LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
48	850mm	ST3946	$69.90	$62.90	$55.90
78	1200mm	ST3948	$79.90	$71.90	$63.90

LED DIMMER SWITCH - 12VDC

Compact in-line dimmer suitable for dimmable LED lights. Rotate ON/OFF and to adjust light level. Supplied with DC jacks for easy connection between LED lights and your power supply unit

- Suitable for use with our LED strip lights ST3930, ST3932, ST3934 and ST3936

SPECIFICATIONS	ST3938
Operating Voltage	12VDC
Output Current (Max)	2A
Output Power (Max)	24W/48W
Dimming	0 to 100%
Colour	White
Dimensions	68(L) x 34(W) x 33(H)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 3+	Qty 6+
In-Line Dimmer	12V	ST3938	$19.90	$17.90	$15.90

for LED strip joiners please see page 179

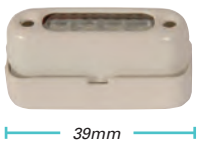
LED cabin lighting:

LED lighting fixtures are ideal for areas that do not have mains power. LED lights draw such a small amount of current for their light output battery power (generally AA cell is all that is necessary). Indeed many fixtures have inbuilt battery compartments or simply require a 12V source. An interesting development has been the 'NOOK' lights on page 420. All units can be wired by DIY handy people. They are 12V safe or battery. They are idea for caravans, sheds, boats - even cubby houses. With these products you never need to be scared of the dark again!

MINI LED LIGHT

Pre wired in a sleek and compact design, this is a perfect mini LED light for illuminating harsh areas. Using new advanced lens technology the LEDs increase light output for optimal lighting with minimal power. The 12 volt light draws 10% of the power of conventional lights. Sealed stainless steel construction allow for placement in tight spaces and harsh environments. Horizontal and vertical mounts provide a variety of mounting options. Can be used in step, board, accent lighting as well as marine applications!

- 12VDC
- Dimensions: 39(W) x 12.7(H) x 12.7(D)mm



Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
24	ST3193	$19.90	$17.90	$15.90

12 WHITE LED ROOF MOUNT INTERIOR LAMP

Simple to install and use LED roof lamp for your motorhome, truck, or boat.

- 12 high brightness cool white LEDs and a on/off switch

SPECIFICATIONS	SL3452
Power	12V
Colour	Cool White
LED	12 x LED
Light Output	140 Lumens
Dimensions	185(L) x 126(W) x 25(H)mm

1 YEAR WARRANTY

Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
140	Cool White	SL3452	$36.90	$33.20	$29.50

CIRCULAR 36 LED - 190 LUMEN CABINET LIGHT - TOUCH SWITCH

A stylish and compact LED Cabinet Light suitable for caravan, marine, 4WD, auto and domestic applications. Touch the aluminium casing to turn the light on and off. Screw mounting holes in base hidden behind removable aluminium trim for neat and easy installation.

SPECIFICATIONS	ST3915
Input Voltage	9 - 30VDC (works on 12V and 24V systems)
Uses	36pcs of 3528 SMD LEDs
Lumens	190
Power Consumption	3W
Colour Temperature	Cool white 5500K
Dimensions	70(Dia) x 9(H)mm

1 YEAR WARRANTY

Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
190	Cool White	ST3915	$43.90	$39.50	$35.00

ULTRA-SLIM LED PANEL CABIN ROOF LIGHTS

These stylish lights are just 7mm thick. Mount them to the roof of your caravan, RV or boat for a bright, cool white light around the cabin. The side-lit LED panel design produces an evenly spread light. They are easy to install & mounting hardware is included.

- Voltage: 12VDC
- LED Type: Epistar®, cool white
- Beam pattern: 120°
- Three brightness options available
- Non-dimmable

1 YEAR WARRANTY

SL3474

SPECIFICATIONS	SL3474	SL3476	SL3478
Lumens	350	590	680
Power Consumption	6W(500mA)	8W(660mA)	10W(830mA)
Dimensions	120(Dia.) x 7(D)mm	165(Dia.) x 7(D)mm	215(Dia.) x 7(D)mm

Lumens	Dia.	Cat.	Qty 1+	Qty 5+	Qty 10+
350	120mm	SL3474	$43.90	$39.50	$35.00
590	165mm	SL3476	$55.90	$50.30	$44.70
680	215mm	SL3478	$74.90	$67.40	$59.90

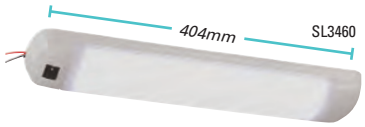
LED Cabin Lighting CONTINUED

CEILING LAMPS WITH SWITCH

A fixed installation ceiling lamp suitable for a caravan, boat, truck, or even a car. The LEDs sit behind a diffuser to help spread the light evenly. Mounting holes on the backing will allow attachment to the roof.

1 YEAR WARRANTY

12 LED
SL3460



SPECIFICATIONS	SL3460
Power	12/24VDC
Colour	Cool white
LED	12 x LEDs
Light Output	280 Lumens
Dimensions	404(L) x 88(W) x 28(H)mm

Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
280	Cool White	SL3460	$74.90	$67.40	$59.90

LED LIGHT WITH SOFT TOUCH SWITCH

Installs in seconds, without wiring. Touch-sensitive on/off operation so there's no fumbling for a switch in the dark. Includes self-adhesive pad. Uses a bright LED light for energy efficiency. Pack of two lights.

1 YEAR WARRANTY

SPECIFICATIONS	SL3501
Lumens	15
Battery	Requires 3 x AAA batteries each
Dimensions	28(H) x 76(D)mm

Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
15	SL3501	$10.90	$9.90	$8.90

REMOTE CONTROL 3 PIECE LED PUCK LIGHT SET

This amazing kit of three LED puck lights takes the hassle out of adding lighting to, well just about anywhere! Each puck light contains not one, two, or three, but 5 ultra bright LEDs. There's no pesky wiring to get them to work though just install three of your favourite AA batteries in to each light and put them in a location that's begging to end the darkness. The included adhesive tabs also mean no screws are required! But these aren't your average puck lights, there's a central remote control to control them all! The remote control then caters for centralised on and off functionality, as well as a "low brightness" dim setting, or set them to turn off in 30-minutes automatically. Not near the remote? Simply press a puck light and it will turn on for you too. Amazing!

- High / low brightness modes
- 30 minute auto-off option
- Can be operated by remote or directly on each LED puck light
- Peel and stick adhesive
- No wiring required

SPECIFICATIONS	SL3511
Batteries	Puck Lights: 3 x AA Each (Not Included) Remote Control: 2 x AAA (Not Included)
Remote Transmission Range	8m Max.
Weight	Puck Lights: 131g Each (Including Batteries) Remote Control: 51g (Including Batteries)
Puck Light Dimensions	95(Dia.) x 30(H)mm Each

	Cat.	Qty 1+	Qty 5+	Qty 10+
Remote Control 3 Piece Set	SL3511	$22.90	$20.90	$17.90

automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

Nook Sensor Lights - Battery Powered

These very compact devices can fit in a small dark space and light it up for you and turn off automatically when you depart. There is no need for expensive mains wiring to be fitted.
They all work from low cost penlite-type batteries which can last for years. You can stick them anywhere with double-sided tape or even hang them from a nail driven in a wall. They are ideal for clothes cupboards, shower recesses (safe), pantries, in boats, caravans and motor homes.

EXTRA BRIGHT LED SENSOR LIGHT

This unit is tubular in outward appearance, measuring 255(W) x 22(Dia.) x 30(H)mm. It features a sturdy, stainless steel mounting bracket. The design allows the light to rotate even though the bracket is screwed to a surface. The movement detector rotates on the same axis as the 9x High efficiency white LEDs. (The LEDs sit behind a diffuser for even light. The unit is powered by 3 x AA batteries (not supplied). Sensor on time 60 seconds approx.

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
80	SL3506	$24.90	$22.40	$19.90

Phillip Kilby likes to

think. possible.

"The raspberry pi has always been my favorite elecronics device to tinker with. In 10 years from now the processing power per Watt will be phenomenal. Expect such low power that we will literally be able to make it work with intensive 3D VR, all on battery power!"

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Portable Lighting

SOLAR LIGHT KIT WITH USB PORT & REMOTE CONTROL

Uses a Li-ion battery to make it light and compact, making it great for camping applications or where space is a premium. Operate via remote control for added convenience.

- 3 individually switched (via remote control) 3W LED lights with 5m leads
- Provides up to 18 hours of light (lowest brightness)
- USB output
- Dimensions:
  Solar panel:
  150(L) x 180(W) x 17(D)mm
  Base unit:
  140(L) x 100(W) x 25(D)mm

Lights	Cat.	Qty 1+	Qty 2+	Qty 4+
3	MB3693	$99.90	$89.90	$79.90

SOLAR LIGHT KIT WITH USB PORT

The main unit features 2 x 3W LED lights built-in with two different brightness settings. The carry handle makes it a useful portable lantern.

- 3 individually switched LED lights (2 x 3W and 1 x 2W) with 5m leads
- Provides up to 15 hours of light (lowest brightness)
- USB output
- Dimensions:
  Solar panel: 256(L) x 143(W) x 15(D)mm
  Base unit: 190(H) x 100(W) x 75(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB3699	$119.00	$106.90	$94.90

Solar Charged

SOLAR MOTION 20XLED WALL LIGHT WITH PIR & NIGHT SENSOR

1 YEAR WARRANTY

Fantastic technology for set-and-forget convenience, and security. An all-in-one tidy unit that charges by day, and illuminates by night. The built-in motion sensor means it's not needlessly wasting its stored power, and 20 x LEDs illuminate the area with bright white light. Of course there's a night sensor to ensure the unit doesn't operate through the day too.

- Wall mounting
- Includes installation kit

SPECIFICATIONS	SL3503
Lumens	180
Solar Panel	0.55W
Battery	3.7V 800mAh
Light Sensor	<10 Lux
Motion Detector Angle	120°
Motion Detector Distance	3m
Dimensions	95(W) x 124(H) x 48(D)mm

Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
180	SL3503	$22.90	$20.90	$17.90

trade card

If you regularly purchase electrical and electronic goods to be used for business purposes you may qualify for a Jaycar Trade Card, which entitles you to substantial discounts on most Jaycar products*. Discounts range from 5% to 30% depending on the type and quantity of products purchased.

** Some products excluded and ABN will be required – see website, T&C or Store Manager for details.*

220 LUMEN SOLAR RECHARGEABLE LIGHT WITH MOTION SENSOR

NEW

Provides self-contained performance with no mains wiring required. The solar panel automatically recharges the internal battery, so you only have to mount the unit where you want it, and you're ready to go! The internal motion sensor provides wide 6m detection range to switch on the ultra bright LEDs. Great security and convenience.

- Easy and quick installation
- PIR sensor
- IP65 Waterproof
- 6m detection range, 120° angle
- 2 modes: both lights on, front off back on
- **KEYHOLE TYPE SCREW MOUNT**

SPECIFICATIONS	SL3512
LEDs	Front 12PCS+Back2PCS
Li-ion Battery	1200mAh/3.7V
Solar Panel	0.7W, Poly-Crystalline Silicon
Detection Angle/Area	120°/≤6m
IP Degree	IP65 Waterproof
Installation Height	≤4m

	Cat.	Qty 1+	Qty 3+	Qty 6+
220 Lumen	SL3512	$33.90	$29.90	$26.90

400 LUMEN OUTDOOR SOLAR LIGHT WITH MOTION SENSOR

NEW

This lovely looking motion activated solar light provides a powerful 400 lumen output, with an easy to install and self-contained frame. Can automatically operate as a night light or a motion sensing light, depending on your preference. The internal batteries are automatically recharged through the day, so there's no wiring hassle. Just install your mounting screws and hang in position. Mounting hardware included.

- Easy installation
- Fully self contained
- 6m detection range, 120°
- **KEYHOLE TYPE SCREW MOUNT**

SPECIFICATIONS	SL3514
LEDs	Front 28PCS+Back 2PCS
Li-Ion Battery	2000mAh/3.7V, 18650 Replaceable
Solar Panel	2.3W, Mono-Crystalline Silicon
Detection Angle/Area	120°/≤6m
Visible Distance	7m
Installation Height	≤4m

	Cat.	Qty 1+	Qty 3+	Qty 6+
400 Lumen	SL3514	$56.90	$50.90	$44.90

RECHARGEABLE SOLAR SENSOR LIGHT

This rechargeable solar sensor acts as a deterrent against thieves with its security camera appearance. A fully self-contained unit with rechargeable battery and solar panel so it will always keep it charged.

Automatically turns on at night whenever movement is detected with the PIR sensor.

SPECIFICATIONS	SL3239
Sensor Angle	0-70°
Solar Panel Input	1.6W
Solar Panel Output	5V, 300mA
Battery	3.7V, 2000mA

	Cat.	Qty 1+	Qty 5+	Qty 10+
300 Lumens	SL3239	$79.90	$71.90	$63.90

monthly specials & promotions

Lookout for our monthly promotions in store and online.

For next day delivery, or Click and Collect, see page 5

Super Bright LED Worklights / Floodlights

Once again LEDs have revolutionised the established concept of floodlights and work lights. Up until recently a workshop light meant trailing a dangerous 240V lead, often across a wet or greasy floor. Now these devices are often 12V powered (there are still powerful 240V models for all night marathons). The portable ones are also great for outdoor functions at night, as well as camping and fishing outdoors. Once you have appreciated the portability of these bright, rugged and lightweight lamps you will wonder how you did without them.

5W PORTABLE LED WORK LIGHT

Ultra rugged and totally portable. A huge 5W COB LED provides amazing light output with low heat. Convenient fold-out stand. Perfect for the work site, camping, and more. High / low light modes to suit your requirements.

- Fold-out stand
- High and low light settings
- Durable case

SPECIFICATIONS	SL2869
Power	5W
Batteries	6 x AA (Not Included)
Weight	544g (Including Batteries)
Dimensions	182(W) x 130(H) x 55(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL2869	$22.90	$20.90	$17.90

SLIMLINE LED WORKLIGHTS - IP65 - 240VAC

Avoid the heat and hassle of traditional Xenon / Halogen worklights. They're power hungry, generate a lot of heat, and there's nothing worse than a blown globe while you're trying to see what you're doing. These lights feature an integrated floor stand, and put out plenty of ultra-white bright light. They use far less power than their traditional counterparts, which is especially important when running from a generator or inverter power. They're IP65 rated so won't mind a little rain, and they're tough, so you don't have to wrap them in cotton wool to transport them in the back of your ute either. 10W and 30W versions available.

- Ultra-Bright Cool White LEDs
- Integrated Floor Stand
- Weatherproof Design
- Removable Slimline Bracket

SL2866 SL2867

SPECIFICATIONS	BOTH
Ingress Protection	IP65
Weight	SL2866 - 0.8kg, SL2867 - 1.4kg
Dimensions	SL2866 - 142(W) x 215(H) x 161(D)mm, SL2867 - 215(W) x 290(H) x 180(D)mm
Power	240VAC
Mains Lead	1m

Lumens	Watts	Cat.	Qty 1+	Qty 4+	Qty 10+
650	10W	SL2866	$28.90	$25.90	$22.90
2100	30W	SL2867	$69.90	$62.90	$55.90

10W RECHARGEABLE LED WORK LIGHT

With a rubberised protective surround, this LED work light is a rugged addition to your work equipment. It's rechargeable for around a 3-hour run time of each charge, and there are four light modes which include high, medium, low and flashing. It also provides a USB charging port so it can be used as a battery bank too! There's a charge level indicator to keep an eye on remaining charge, and it includes a versatile stand with adjustable angle too. Includes a USB charging cable.

- High, Medium, Low & Flashing Modes
- USB Charging Port
- Battery Level Indicator
- Charge & Discharge Protection

SPECIFICATIONS	SL2858
LED	10W COB
LED Colour	Cool White
Lumens	100
Burn Time	3 hours
Charging Time	5 hours
Charging Input	5VDC, 1A
Battery	Li-Ion 3.7V, 4400mAh
USB Charging Port	5VDC, 1A
IP Rating	IP54
Dimensions	172(W) x 127(H) x 46(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
10W Rechargeable LED Work Light	SL2858	$56.90	$50.90	$44.90

20W RECHARGEABLE LED WORK LIGHT

This rechargeable LED work light provides around a 3-hour run time of each charge, and there are four light modes which include high, medium, low and flashing. It also provides a USB charging port so it can be used as a battery bank too! There's a charge level indicator to keep an eye on remaining charge, and it includes a 360° adjustable bracket. Includes a USB charging cable and USB mains power adaptor.

- High, Medium, Low & Flashing Modes
- USB Charging Port
- Battery Level Indicator
- 360° Rotatable Bracket
- Charge & Discharge Protection

SPECIFICATIONS	SL2859
LED	20W COB
LED Colour	Cool White
Lumens	1800
Burn Time	3 hours
Charging Time	4 hours
Charging Input	5VDC, 2A
Battery	Li-Ion 3.7V, 6600mAh
USB Charging Port	5VDC, 1A
IP Rating	IP65
Dimensions	260(W) x 173(H) x 120(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
20W Rechargeable LED Work Light	SL2859	$119.00	$106.90	$94.90

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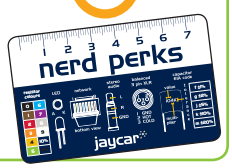

Worklights Handheld

What is COB? COB means "chip-on-board" & describes individual LED chips mounted on a common substrate i.e. board. It produces a brilliant diffused light source.

MAGNETIC LED WORK LIGHT WITH TORCH

One of the most convenient worklight designs around. Powerful 360 lumen illumination with a fantastic light spread, or use the integrated torch, all fitted in a well moulded wand-style case. Includes magnets to quickly mount to any ferrous metal surface, as well as a hang hook.

- Requires 4 x AA batteries.
- Magnetic / hook mounting
- Durable case
- Worklight and torch mode

SPECIFICATIONS	ST3218
Lumens	360
Batteries	4 x AA (Not Included)
Weight	76g
Dimensions	40(W) x 288(H) x 27(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3218	$10.90	$9.90	$8.90

MULTIPLE MOUNT LED WORKLIGHT

This unit features 3 mounting configurations – a magnet to attach to steel car/truck bodies, a sturdy hook hanger and a tilting 'bail' to sit on a floor at a convenient angle. The main light itself is a COB (chip on board) array of 27 LED lights on two light settings: very, very bright and just bright. There is a torch-type LED light on one end to view into confined spaces. The main light is rated at 250/200 lumens and the torch at 80 lumens. It is compact at 150(L) x 55(W) x 23(D)mm and will easily fit into a glove box or tool kit until it is needed.
It will fit into a pocket nicely as well.

- Yellow with soft black accented hand grip
- Main light output: 250/200 lumens
- Torch output: 80 lumens
- Requires 4 x AA Batteries
- Dimensions: 150(L) x 55(W) x 23(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3250	$14.90	$13.90	$11.90

RECHARGEABLE HANDHELD 3W COB WORKLIGHT

NEW

A must-have handy worklight for every toolbox, workshop or glove box. This versatile worklight sits comfortably in your hand and it can also be used hands-free using the flip-out hook or strong magnets in the base that adjusts 180° for the best angle. This rechargeable worklight doubles as a hand torch using the 6 x white LEDs in the end. Features a chip-on-board (COB) LED for an even spread of light, switch to toggle between worklight or torch, with a soft rubber finish. To avoid being stranded with a flat mobile phone there is also a USB port to charge your phone or to power other USB gadgets. Recharge the torch via USB.

- 2 light modes: COB light
  6 LED light
- USB powerbank
- Magnetic base and hang hook mounts
- 180° rotateable stand

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3492	$28.90	$25.90	$22.90

RECHARGEABLE 3W COB WORKLIGHT W/STAND

NEW

Features three light modes: white, yellow, or red lights. Great for use as a warning or work light, especially in poor visibility conditions. Select the colour to suit your requirements! Impact resistant case, and 2-hour run time. Lightweight and portable.

- 3 light modes: 3W white light, red light, yellow light
- 200 Lumens
- 2 hours runtime
- 4 hours recharge time

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
200	ST3220	$22.90	$20.90	$17.90

RECHARGEABLE LED LIGHT WITH MAGNET AND CLIP

NEW

Ultra bright and conveniently mounted using the integrated stand or magnet. Runs for up to 6hrs. Select from flashing, 25%, 50%, or full brightness to suit your requirements. Internal rechargeable Lithium battery is lightweight, and recharged in just two hours. Durable impact-resistant case.

- 4 light modes: 100%, 50%, 25%, flashing
- Runtime: 100% - 1 hour
  50% - 1.5 hours
  25% - 6 hours
- 180 Lumens
- 2 hours recharge time

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
180	ST3200	$14.90	$13.90	$11.90

35 LUMEN LED KEYRING LIGHT WITH CLIP

Has keyring/lanyard fitting and pocket clip. Super-bright COB (clip on board) LED array. 3 settings, astonishingly bright, bright & flashing.(Flashing could be used to bring attention.)
Has special feature so that button battery compartment cannot be accessed by children, who have been known to access button batteries and swallow them.

- Assorted colours
- Battery life is incredible
- Dimensions: 55(L) x 30(W) x 18(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3429	$5.60	$5.00	$4.40

UNIVERSAL GOOSE NECK WORK/CAMPING LIGHT

Equipped with a magnet on the base and a flexible gooseneck, this powerful COB LED lamp can be attached and positioned to project the light to exactly where you want it.

- 1W power consumption
- 120 lumen output
- Powered by 3 x AAA batteries (not included)
- Dimensions: 200(L) x 30(Dia)mm

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
120	ST3470	$11.90	$10.70	$9.50

160 LUMEN COB LED WORK LIGHT & TORCH

Ultra light and compact, with a handle belt / pocket clip. Quickly select between worklight mode and torch mode, depending on your requirements. It's made from rubberised plastic so it's durable, but comfortable in your hand too. It also features a small magnet on the back to quickly grab on to any ferrous metal for handsfree operation.

- Worklight or torch mode
- Ultra bright & energy efficient
- Magnetic and belt clip

SPECIFICATIONS	ST3471
Requires	3 x AAA Batteries
Dimensions	175(L) x 34(W) x 14(H)mm, 82g

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
160	ST3471	$7.90	$7.10	$6.30

SUPER BRIGHT LED TORCH WITH MAGNETIC HEAD & TELESCOPIC NECK

A pen-sized torch with super bright LEDs and magnetic head for picking up objects. The torch head is attached to a telescopic mast hidden away inside the casing. Fully extended the torch has a total length of 546mm allowing your search into cracks and crevices.
A gooseneck at the end allows you to shine light around corners & pick up metallic objects out of reach.

- Requires 4 x LR44 batteries (included)
- Dimensions: 165(L)mm to 550mm (neck fully extended); 20mm (torch head diameter)

Lumens		Cat.	Qty 1+	Qty 5+	Qty 10+
50	Telescopic	ST3463	$10.90	$9.90	$8.90

For next day delivery, or Click and Collect, see page 5

LED torches:

The Americans call a torch a 'flashlight'. Why? Because in the early days batteries were so poor and light globes so inefficient, you could only turn the torch on for a second or so, i.e. "flash" to save the battery and still see where you were going in the dark. Well, batteries got better, but torch globes stayed hopeless but at least we could keep the torch on for a while. Now almost all torches use LED-type globes. LEDs draw about 1/50th the current of old globes so you can leave the torch on all the time. Even better, LED globes are far, far brighter. Even though we have an extensive range, you will have difficulty making a mistake when choosing a LED torch. They are all good.

KEYRING LED TORCH WITH BOTTLE OPENER

NEW

There are only two things almost as important as the keys on your keyring... a torch, and a bottle opener. This ingenious device has both! Especially important if you're opening a bottle, in the dark - it helps avoid spills when you can see what you're doing! Available in black, blue, grey or silver.

SPECIFICATIONS	ST3436
Material	Aluminum
Battery	3 x LR44 (Included)
LED	3
Dimensions	72(L) x 18(Dia.)mm (Excluding Key Chain and Ring)

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
15	ST3436	$5.60	$5.00	$4.45

BLOCKLITE 9V BATTERY LIGHT

1 YEAR WARRANTY

The torch unit itself is uniquely designed to clip onto a standard 9V battery. Selectable 2 or 6-LED operation. Even though it'll feel like the battery lasts forever, once it finally runs flat, just replace with any standard 9V battery.

- 2 or 6 LED mode
- Over 30 hours burn time

SPECIFICATIONS	ST3367
Battery	9V Alkaline
Weight	7g (excluding battery - approx 45g with battery)
Dimensions	24(H) x 24(W) x 15(D)mm (excluding battery) 69(H) x 24(W) x 15(D)mm (including battery)

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3367	$9.90	$8.90	$7.90

100 LUMEN LED TORCH

You don't need one of these, you need three! This 100-Lumen LED torch will run for up to 12 hours on the included AAA batteries, and is compact enough to store anywhere. Perfect for the emergency kit, the glove box, the go bag, anywhere you need it.

- Super bright COB
- 12 hours burn time
- Compact and convenient
- 4 colours to choose from, sold individually

SPECIFICATIONS	ST3432
Batteries	3 x AAA (Included)
Lumens	100
Beam	12m approx
Burn Time	12 Hours
Mode	On/Off
Weight	63g (Including Batteries)
Dimensions	98(H) x 30(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
100	ST3432	$5.90	$5.30	$4.70

Ben Fuller likes to

think. possible.

"The world of DIY sequenced xmas lights is growing every year. From singing faces to full blown matrix, the shows people create are getting bigger and better. Over the next 5-10 years, I see more use of holographic displays incorporated into light shows as holographic fans get more affordable."

150 LUMEN ADJUSTABLE BEAM MINI CREE® LED TORCH

This heavy-duty torch is suitable for any adventure. Small enough to fit into most pockets, yet powerful enough to cast ample light where and when you need it. When you require a focused beam, adjust the light by twisting the handle clockwise. When a wide beam is preferred, simply twist it anticlockwise. Features two light modes to chose from: high & low. Just press the button at the end of the handle to alternate between the two. The durable design features an o-ring seal to ensure dirt and moisture stay out. Take advantage of the ergonomic handle grip or use the attached clip for hands-free transport and operation.

SPECIFICATIONS	ST3481
Light Modes	High & Low
Lumens	150
Batteries	1 x AA (not included)
Burn Time	10 hours
Beam Distance	120 metres
Beam Angle	5-60°
Dimensions	100(L) x 26(Dia.)mm
Weight	54g (including battery)

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
150	ST3481	$13.90	$12.50	$11.10

300 LUMEN LED TORCH WITH ADJUSTABLE LENS

Compact and lightweight metal construction, with an integrated beam adjustment. Simply twist the head to change from spot to flood modes. Includes a convenient belt clip, with high / medium / low power and flashing modes. 3 x AAA batteries required.

- Belt clip
- High, medium, low, flashing modes
- Durable case

SPECIFICATIONS	ST3449
Batteries	3 x AAA (Not Included)
Lumens	300
Weight	124g (Including Batteries)
Dimensions	122(L) x 31(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	ST3449	$16.90	$14.90	$13.90

370 LUMEN USB RECHARGEABLE LED TORCH - ADJUSTABLE BEAM

A great little LED torch with 370 lumens of bright white light, and a slide adjustable beam to go from a wide flood beam to a narrow spot beam. Features a 2,200mAh lithium ion 18650 rechargeable battery, which you can recharge inside the torch by plugging into any USB port. Charge it off your computer or the charger from your mobile phone - USB charging is literally everywhere! Add to that the tactical style switch, multiple operating modes (100%, 50%, and SOS) and it's a winner.

SPECIFICATIONS	ST3490
Lumens	370
Burn Time	4 hours (at 100%)
Battery	1x 18650 Li-ion 2200mAh included
Light Modes	High, low, SOS
Dimensions	150(L) x 37(Dia.)mm

1 YEAR WARRANTY

Lumens		Cat.	Qty 1+	Qty 5+	Qty 10+
370	Adjustable	ST3490	$33.90	$29.90	$26.90

LED Torches CONTINUED

400 LUMEN 8W CREE® LED TORCH

Made from lightweight aluminimum, packing a huge punch with an 8W CREE® LED. Features high/low selection. Burn time is a massive 5+ hours, up to 10hrs in low power mode. Very durable and so bright. For this price, you'll want more than one!

SPECIFICATIONS	ST3477
Lumens	400
Burn Time	5 hours (at 100%)
Batteries	3 x AAA required
Light Modes	High, low
Dimensions	132(L) x 35(Dia.)mm

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
400	ST3477	$22.90	$20.90	$17.90

1000 LUMEN RECHARGEABLE LED TORCH - ADJUSTABLE BEAM

A fully rechargeable tough aluminium alloy torch for your next hunt, or outback journey. Inside is a powerful Cree® XML2-T6 and features a zoom function so targets can be focused on. Modes include high, low, and strobe. Can be recharged with the supplied mains charger.

1 YEAR WARRANTY

SPECIFICATIONS	ST3498
Lumens	1000
LED	Cree® XML2-T6
Lighting Distance	391m
Burn Time	2h
Light Modes	High, low, strobe
Powered By	1 x 26650 Li-ion battery (included)
Dimensions	199(L) x 53(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,000	ST3498	$79.90	$71.90	$63.90

2,500 LUMEN RECHARGEABLE LED TORCH

Super bright 2,500 lumen aluminium alloy torch for camping, caving, hunting, or hiking. Fully rechargeable with the supplied mains charger. Ideal for burning the flesh off vampires and other light sensitive creatures.

1 YEAR WARRANTY

SPECIFICATIONS	ST3499
Lumens	2,500
LED	Cree® XML2-U2
Lighting Distance	400m
Burn Time	1.5- 2hour
Light Modes	High, low, strobe
Powered By	2 x 26650 Li-ion battery (included)
Dimensions	244(L) x 63(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
2,500	ST3499	$149.00	$133.90	$118.90
Spare Battery NEW	ST3497	$22.90	$20.90	$17.90

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Marine Torch & Distress Lights

SURVIVOR DISTRESS LED LIGHT

A handy safety device that is a must when you are venturing out in open water. Unit is small, lightweight with a lanyard and clip for easy attachment to any life jacket or clothing. The bright LED distress light activates automatically when submerged in water.

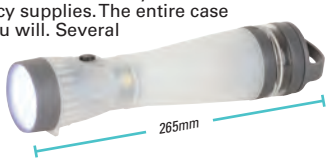
- Water activated
- Waterproof construction
- Battery replaceable - battery life: up to 100 hours

	Cat.	Qty 1+	Qty 5+	Qty 10+
Distress LED Light	ST3230	$8.90	$7.70	$6.70

6 IN 1 SURVIVAL TORCH WITH STORAGE COMPARTMENT

Auto-flashing is triggered when the torch hits water, where it will float too. Includes two built-in compartments to carry some critical medication or other small emergency supplies. The entire case is IP68 rated, so it'll go wherever you will. Several lighting modes: torch, lantern, red lantern and red flashing lantern. Drop-resistant to 1m, it's rugged enough to go everywhere you do.

- Auto-flashing emergency mode
- Floats on water
- 4 light modes



SPECIFICATIONS	ST3133
Light Modes	Torch, Lantern, Red Lantern, Red Flashing Lantern
Light Output	40 lumens (torch), 120 lumens (lantern), 30 lumens (red lantern)
Burn Time	Up to 20 hours
Batteries	3 x AA (not included)
Weight	210g (including alkaline batteries)
Dimensions	265(L) x 60(Dia.)mm

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
120	ST3133	$24.90	$22.40	$19.90

4 IN 1 DYNAMO RADIO (FM/AM) TORCH HAND CRANK EMERGENCY CHARGER

Features a dual-function torch (single 0.5W LED or dual high brightness LEDs), FM radio & siren. All are powered from an internal battery, which can be recharged via USB, or by cranking the dynamo handle. There's a USB charging outlet to provide critical power to your phone in an emergency too. Built-in dynamo will give you over 10-minutes of radio or torch functionality, or two minutes of siren. On a full charge they'll run for much longer.

- Internal Lithium Polimer (LiPo) Battery
- Dynamo Crank Power Backup
- Dual-Function Torch & FM Radio
- Emergency Siren

SPECIFICATIONS	AR1771
Battery	3.7V 480mAh LiPo
Charge Time	Approx 2 hours
Working Time	0.5W LED: ≥4hrs, LED: ≥10hrs, Radio: ≥5hrs, Siren: ≥70min
Light Output	≥30 lumens (0.5W LED), ≥6 lumens (High Brightness LED)
Emergency Siren Output	≥120dB
Frequency Range	FM 88-108MHz AM 522 - 1620kHz
USB Charging Current	5VDC @ 0.4A Max
Dimensions	158(L) x 50(W) x 33(D)mm, 171g

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 4+	Qty 10+
30	AR1771	$36.90	$33.20	$29.50

Roland Walzer likes to

think. possible.

"Robotic lawn mowers are the way to go. People are time poor and the environment needs help. The best way to do so is the autonomous lawn mower with great energy saving features."

For next day delivery, or Click and Collect, see page 5

LED Spotlights

600 LUMEN RECHARGEABLE LED SPOTLIGHT WITH ADJUSTABLE BEAM

An LED spotlight that's glove box friendly, but still bright enough to be properly considered a spotlight. With a bright 600 lumens of clean white light it can light up objects up to 500m away when adjusted to the tight spot beam. You can then adjust the beam to a wide, even flood beam when you need to light up a wide area. It is shock and vibration resistant, and of course weatherproof (IP65 rated) so you can use it in the rain. Nice and compact, light in the hand, and lasts for hours. Powered by 3 x 18650 Li-ion batteries, and includes mains and car chargers.

SPECIFICATIONS	ST3316
Light Output	600 lumens
Beam Distance	Up to 500m
Burn Time	4 hours (high), 24 hours (low)
Battery	3 x 18650 Li-ion 2,200mAh included
Light Modes	high (100%), low (20%)
Dimensions	170(L) x 91(H) x 55(W)mm
Weight	500g

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
600	ST3316	$94.90	$84.90	$75.90

4500 LUMEN 45W RECHARGEABLE LED FLOATING SPOTLIGHT

NEW

Bright enough to illuminate objects almost half a kilometre away! This ultra-bright spotlight is perfect for every boat, 4x4, camper or spotlight enthusiast. It is fully waterproof (IP67) and floats in case you knock it into the water. Use the non-slip handle with wrist strap for handheld use or swing out the adjustable bracket for hands-free operation. The built-in rechargeable Lithium batteries hold enough power for up to 75 minutes at full brightness or 150 minutes at low brightness. It also features a flashing SOS mode to attract attention if you are in distress, and intelligent circuitry regulates the brightness to avoid overheating and helps to extend battery life. A mains and in-car 12/24VDC charger are supplied, along with a 1.2m USB cable to charge from an available USB port or powerbank.

- Waterproof IP67
- Floating
- Shatterproof head
- Adjustable stand
- 4500 Lumens
- IC control chip automatically reduces brightness to regulate running temperature
- Magnetic trigger switch
- Over-charge/over-discharge protection
- 3 x Cree XHP50.2 Super Bright LEDs (45W Total)

SPECIFICATIONS	ST3329
LEDs	3 x Cree XHP50.2 Super Bright (45W Total)
Batteries	2 x 18650 Rechargeable Lithium-Ion 7.4V, 2000mAh
Range	Up to 480m
Run Time	High: 75 Minutes Low: 150 Minutes SOS: 170 Minutes
Charge Time	5-6 Hours Mains, 2-3 Hours In-car
IP Rating	IP67
Dimensions	295(L) x 220(H) x 47(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
4,500	ST3329	$139.00	$124.90	$110.90

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350 LUMEN FLOATING SPOTLIGHT - CREE® LED

For search and rescue or retrieving the garbage bins from the kerb, it's fully waterproof (IP67) and floats in water. A fold-out stand allows you to put it down, while a pistol-grip and lanyard ensure it stays firmly in-hand too. An integrated whistle in the lanyard can be used to draw attention in emergencies also. High / low power and flashing modes, 3 x AA batteries required.

- 4W Cree® LED
- IP67 waterproof and floats
- High, low, and flashing modes

Stock is red & black colour.

SPECIFICATIONS	ST3240
Batteries	3 x AA (Not Included)
Range	350m
Weight	400g (Including Batteries)
Dimensions	78(W) x 162(H) x 142(D)mm

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
350	ST3240	$22.90	$20.90	$17.90

700 LUMEN WATERPROOF FLOATING SPOTLIGHT

1 YEAR WARRANTY

Designed for taking on the boat, fishing trips, etc. It is fully waterproof and will float if it is knocked into the water. Features a lock switch and swing out bracket for when you need hands-free operation. Includes red-LED strobe function too! The hand strap also includes a whistle for getting attention. Supplied with mains and cigarette lighter charger.

SPECIFICATIONS	ST3311
Weight	329g
Dimensions	160(H) x 145(D) x 75(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+
700	ST3311	$74.90	$67.40

1,500 LUMEN WATERPROOF FLOATING SPOTLIGHT

Designed for taking on the boat. It is fully waterproof and will float if it is knocked into the water. Includes a hand strap that you can tighten so you can't lose it if you find yourself falling overboard. Supplied with mains and cigarette lighter charger.

1 YEAR WARRANTY

SPECIFICATIONS	ST3327
Burn Time	High: 6.5 hours, Low: 14 hours, SOS: 15 hours
Battery	3 x S1P Rechargeable Lithium 18650 Batteries (11.1V 2200mAh)
Weight	820g
Dimensions	200(H) x 190(D) x 120(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,500	ST3327	$149.00	$133.95	$118.95

BEANIE WITH RECHARGEABLE LED HEAD LAMP

The powerful 80 lumen LED light features three light modes: low, medium and high. The light can easily be removed for beanie washing, or recharging. Plugs directly into a compatible USB port to recharge. The elasticised knitted beanie fits comfortably and does away with the annoying strap adjustments of other head torches. The ultimate accessory for outdoor adventurers (and people with cold heads).

SPECIFICATIONS	ST3214
Lumens	80
Light Modes	Low, Medium & High
Battery	400mAh Li-ion
Burn Time	4 hours
Dimensions	65(L) x 50(W) x 14(H)mm (light), 90g

1 YEAR WARRANTY

Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
80	Black	ST3214	$24.90	$22.40	$19.90
80	Grey	ST3215	$24.90	$22.40	$19.90

LED Head Torches

80 LUMEN LED HEAD TORCH WITH 2 RED LEDS

1 YEAR WARRANTY

This multi-function head torch with adjustable head band includes a 3 watt white LED and 2 high brightness red LEDs. The ratchet in the headband tilts the light to where you need it. Use the power button to toggle between four light modes.

- Light Modes: High beam white, low beam white, continuous red, flashing red
- 3W - Requires 3 x AAA batteries
- Dimensions: 60(L) x 45(W) x 35(D)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
80	ST3209	$11.90	$10.70	$9.50

120 LUMEN ULTRA BRIGHT COB HEAD TORCH

1 YEAR WARRANTY

This COB (Chip on board) head torch provides a very bright, wide, and uniform 120 Lumens of light (unlike other LEDs that emit directional light). COB LED technology has increased efficiency and life span when compared to other LED technology. Great for tinkering on the car at night, cooking snags on the campfire, in around the campsite, or just reading a book. Incorporating a comfortable and adjustable elastic strap. Made from shock resistant ABS plastic, this unit is built to last.

SPECIFICATIONS	ST3211
Light Modes	High and Low
Batteries	3 x AAA required
Dimensions	57(W) x 44(D) x 40(H)mm
Weight	67g with batteries

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
120	ST3211	$15.90	$14.30	$12.70

180 LUMEN HEAD TORCH WITH RED LEDS - RECHARGEABLE

This unique head torch features a high power 3W white LED as well as two ultra-bright red LEDs. They can be set independently for different modes. Select from high/low/flashing mode for the white LED, and constant/flashing modes for the red LEDs. The hinged bracket allows angle adjustment to optimise the light where you need it.

- Weatherproof IPX4
- Dual Switch Control
- Rechargeable

SPECIFICATIONS	ST3277
Burn Time	4 hours High / 30 hours Low
Charge Time	6 hours
Weight	55g (excluding head strap)
Dimensions	55(L) x 35(W) x 35(D)mm

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
180	ST3277	$24.90	$22.40	$19.90

260 LUMEN ADJUSTABLE HEAD TORCH WITH CREE® LED

Three modes of operation - high, low and strobe. The beam can be focused quickly from wide to spot by simply sliding the zoom in or out. Comfortable elasticised head strap.

CREE LEDs

SPECIFICATIONS	ST3213
Burn Time	7 hours
Light Modes	High, low, strobe
Water Resistant	Yes
Batteries	3 x AAA (not included)
Dimensions	65(D) x 60(W) x 40(H)mm

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
260	ST3213	$24.90	$22.40	$19.90

250 LUMEN LED HEAD TORCH WITH RED & GREEN LEDS

Designed with two distinct light sources to suit different uses. The first is a powerful Cree® LED for long range / torch style illumination when hiking or searching etc. The large COB LED can then be operated in white, red or green modes. This provides you a broad flood-style light which is perfect for more general illumination. Red and green modes are especially useful in adverse conditions. All bundled into a shock-resistant case for durability. A small red light and whistle is also included on the head-strap as an additional emergency feature.

SPECIFICATIONS	ST3210
Batteries	3 x AAA required
Burn Time	16 Hours
Ingress Rating	IP44
Dimensions	67(W) x 46(H) x 35(D)mm (Excluding Strap)

1 YEAR WARRANTY

Lumens	Cat.	Qty 1+	Qty 6+	Qty 12+
250	ST3210	$22.90	$20.90	$17.90

550 LUMEN HEAD TORCHES - ADJUSTABLE BEAM & CREE® XML LED

1 YEAR WARRANTY

Will output 550 lumens of bright white light which is more than enough for all of the above and more. The headstrap is adjustable and the light beam can be adjusted to suit your needs. To operate simply press the push switch on the battery pack mounted on the back of the head strap. Dimensions: 80(W) x 70(H) x 55(D)mm. ST3299 includes charger and mains power supply.

CREE LEDs

SPECIFICATIONS	ST3298	ST3299
Battery	Requires 4 x AA batteries	18650 Li-ion Rechargeable
Recharge Time	-	4 hours
Burn time	4 - 5 hours	4 - 5 hours
Light Modes	High, dim, flashing	High, dim, flashing

Lumens		Cat.	Qty 1+	Qty 10+	Qty 25+
550	Takes 4 x AA Batteries	ST3298	$39.90	$35.90	$31.90
550	Rechargable	ST3299	$69.90	$62.90	$55.90

pick me LED Head Torch

	ST3209	ST3211	ST3277	ST3213	ST3210	ST3298	ST3299
Lumens	80	120	180	260	250	550	550
Run Time (hour)	5	4	4	7	16	4	4
Power	3 x AAA	3 x AAA	Li-Po	3 x AAA	3 x AAA	4 x AA	Lithium
Rechargeable			•				•
Adjustable Beam				•		•	•
L x W x D (mm)	60 x 45 x 35	57 x 40 x 44	55 x 35 x 35	60 x 40 x 65	67 x 46 x 35	80 x 70 x 55	80 x 70 x 55

For next day delivery, or Click and Collect, see page 5

Lanterns

30 LUMEN CAMP LIGHT WITH CARABINER

A handy LED light in the shape of a traditional light bulb perfect for ambient light in your tent, kids cubbyhouse or cabin. Hang using the integrated D-hook or supplied carabiner.

1 YEAR WARRANTY

SPECIFICATIONS	ST3158
3 Light Modes	High, low, flashing
Requires	1 x AA battery
Dimensions	100(L) x 60(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
30	ST3158	$7.90	$7.10	$6.30

MINI COLLAPSIBLE LANTERN 180 LUMENS

Ultra compact yet ultra bright. This mini lantern is super compact for storage, but expands out to reveal an ultra bright LED light. Integrated carry / hanging handles mean you can hang it up easily, and provides 360° light. Includes 3 x AAA batteries, so it's ready to go (but don't forget extra batteries if you anticipate a lot of use)! Available in red, orange, blue and grey finishes.

NOTE: Online purhcase will receive a random colour. Sold as single unit.

- Carry handles
- Uses 3 x AAA batteries (included)
- 4 hours burn time

SPECIFICATIONS	ST3145
Batteries	3 x AAA (Included)
Lumens	180
LED	3 x COB
Range	8m
Angle	360°
Burn Time	4 Hours
Weight	160g (Including Batteries)
Dimensions	95(H) x 70(Dia.)mm (Closed) 140(H) x 70(Dia.)mm (Open)

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
180	ST3145	$14.90	$13.90	$11.90

300 LUMEN COLLAPSIBLE LANTERN WITH MAGNETIC BASE

Ultra-convenient and clever design allows the lantern to collapse down when not in use. Pop it up and switch it on, and the three ultra-bright COB LEDs provide stunning brightness. The lantern is designed with a metal hanging handle, as well as magnets in the base to hold on any ferrous metal such as a car, steel pole, etc.

1 YEAR WARRANTY

SPECIFICATIONS	ST3130
Batteries	3 x AA required
Weight	290g
Dimensions	Closed: 128(H) x 85(Dia.)mm Open: 185(H) x 85(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 6+	Qty 12+
300	ST3130	$16.90	$14.90	$13.40

monthly specials & promotions

Lookout for our monthly promotions in store and online.

280 LUMEN LANTERN WITH RED LED FLASHER

Featuring three ultra-powerful COB LEDs for an ultrabright 280 lumen output, to light up your campsite. It also incorporates 6 x red flashing LEDs into the top, for use in an emergency. High / low brightness selection. Also features a metal hang-hook which is very handy. Requires 3 x AA batteries.

- 3 COB LEDs
- Handy Hang-hook

1 YEAR WARRANTY

SPECIFICATIONS	ST3426
Batteries	3 x AA
Dimensions	160(H) x 80(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
280	ST3426	$16.90	$14.90	$13.90

500 LUMEN LED CLASSIC LANTERN

Lasts up to 10 days on low setting, or up to 3 days set to its super bright 500 lumen cool white setting. It is made from impact-resistant ABS plastic and drop tested to 1m, and will survive a rain shower with its IPX4 weatherproof rating. The top rim of the lantern glows-in-the-dark, so you can still find your way about the tent or room after you turn it off.

1 YEAR WARRANTY

SPECIFICATIONS	ST3420
Lumens	500
4 Light Modes	High, medium, low, flashing
Requires	6 x AA alkaline batteries
Dimensions	150(L) x 60(Dia.)mm

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
500	ST3420	$19.90	$17.90	$15.90

FLEXIBLE USB LED STRIP LIGHT WITH MOUNTS AND CARRY BAG

USB lights used to be the domain of gamers and computing enthusiasts. With the proliferation of USB power in portable power devices (power banks, mains inverters etc.), USB power is often more available than mains or 12V power.

This waterproof flexible LED strip light connects into any USB port to power its 120 LEDs. Use it as a strip light, or keep it in the included nylon bag and it will behave more like a lantern! It includes magnetic sliders and reusable cable ties for absolute convenience. Lightweight and handy, perfectly suited for camping as well as a backup emergency kit.

- IP67 Waterproof
- 120 x LEDs
- USB Powered

SPECIFICATIONS	ST3952
Light Output	180 Lumens
Power	5VDC @ 1.55A USB Connection
Length	2m

Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
180	ST3952	$22.90	$20.90	$17.90

FLEXIBLE LED STRIP LIGHT FOR OUTDOORS

A simple solution for campsite lighting. Just plug it into a 12V cigarette lighter socket, flick the switch and you have over 1,000 lumens of brilliant white light to light up under your awning, inside a tent, or anywhere else around the campsite. The 1.2m long LED strip is fitted inside a fabric strip with hook and loop backing allowing you to easily attach it to tent poles or awning frames. Metal hooks are also fitted for alternative mounting options. The supply cord is 5m long with a waterproof in-line switch. The LED strip is IP67 water resistant - so there's no worries if you leave it out in the pouring rain. Includes carry bag.

SPECIFICATIONS	ST3954
Water Resistant Rating	IP67
Input	12VDC @ 1A
LEDs	72 x 5050SMD
Dimensions	1350(L) x 50(W) x 7(H)mm
Cord Length	5m

Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,200	ST3954	$49.90	$44.90	$39.90

External Lights & Spotlights

720 LUMEN LED FLOODLIGHTS WITH CREE® LED

1 YEAR WARRANTY

A cost effective waterproof, dustproof and shockproof lights suited to the rough demands of 4WD or marine lighting applications. The low profile design and provided mounting clips allow you to make a group of these lights mounted as a straight light bar or stacked on each other to create a light panel. For off-road use only.

- Housing: Durable alloy diecast

STACKABLE

SPECIFICATIONS	SL3938
LED Life	Over 50,000 hours
Waterproof	IP67
Current draw	12V (0.6A), 24V (0.3A)
Voltage	9 - 60V (10W)
Lumens	720
Colour Temperature	6000K
Termination	Fly Leads
Dimensions	51(W) x 51(H) x 61(D)mm

Type		Cat.	Qty 1+	Qty 3+	Qty 6+
Floodlight	Pair	SL3938	$79.90	$71.90	$63.90

1,136 LUMEN LED VEHICLE FLOODLIGHT

1 YEAR WARRANTY

Compact but powerful, it uses eight 1.5W Osram® LEDs to throw a huge, wide beam in front of you. A broad 50° angle gives you plenty of light spread, while still retaining up to 57m illumination range. Powered from 12-24VDC so they're suitable for trucks too, they're built tough. Protected against shock, water, and UV shielded, their powdercoated aluminium frame and stainless steel mounting hardware will go anywhere you do.

SPECIFICATIONS	SL3931
Input	9-36VDC @ 12W
Lumens	1,136
Ingress Rating	IP68
Dimensions	128(W) x 51(D) x 90(H)mm (Excluding Cable)

Type		Cat.	Qty 1+	Qty 6+	Qty 12+
Floodlight	Each	SL3931	$39.90	$35.90	$31.90

2,272 LUMEN LED VEHICLE FLOODLIGHTS

1 YEAR WARRANTY

These are stunningly bright floodlights, with a massive 2,272 lumen output. Available in a round or square aluminium enclosure to suit your personal style, both styles encase the same LED array and produce the same light power. Built with 16 individual 1.5W Osram® LEDs for huge light output, they're shockproof, weatherproof, and UV shielded. Powered from 9-36VDC so they'll run on cars or trucks. Fitted with stainless steel mounting hardware.

SL3935

SL3937

SPECIFICATIONS	SL3935	SL3937
Input	9-36VDC @ 24W	9-36VDC @ 24W
Lumens	2,272	2,272
Ingress Rating	IP68	IP68
Dimensions	128(W) x 51(D) x 142(H)mm	128(W) x 51(D) x 152(H)mm

Type		Cat.	Qty 1+	Qty 6+	Qty 12+
Square	Each	SL3935	$56.90	$50.90	$44.90
Round	Each	SL3937	$56.90	$50.90	$44.90

2,250 LUMEN 25W SINGLE ROW LED VEHICLE WORKLIGHT

1 YEAR WARRANTY

Just hook it up to your 12V or 24V battery system and light up your work area, campsite, boat deck or any other outdoor area. This single row LED work light features 5 x high power Epistar 5W LEDs housed in an IP67 rated powder coated aluminium heatsink case, covered with an unbreakable Lexan polycarbonate lens. Being LEDs, they use very little power to produce ample light, and are impervious to shock and vibrations - excellent in 4WD, marine, caravan, mining, or any other harsh environment application. For off-road use only.

SPECIFICATIONS	SL3975
Beam Pattern	Flood
Beam Distance	92m
Lumen Output	2,250
Equivalent Halogen	175W
Input Current	1.56A (12VDC), 0.80A (24VDC)
Operating Temp	-40°C - 60°C
Dimensions	140(L) x 45(H) x 71(D)mm

Type		Cat.	Qty 1+	Qty 5+	Qty 10+
Flood	Each	SL3975	$69.90	$62.90	$55.90

3,486 LUMEN IP68 SOLID LED VEHICLE LIGHTS

NEW

1 YEAR WARRANTY

Why would you ever buy halogen or HID spotlights again? These LED lights output over 3400 lumens of brilliant white light - that's more light than a 300W halogen! They are also completely shockproof, waterproof (IP68), rust proof, shatterproof, last for 50,000 hours, draws a measly 34W, turn on instantly, have a beam throw of up to 378m (for spotlight, flood = 183m), work off 12VDC or 24VDC, and can handle pretty extreme temperatures without fuss. A must have for any serious 4WD bull bar or roll bar, or for any other application where extreme ruggedness and blinding brightness are desired. Available in either spot or flood beam patterns, and fitted with marine grade 316 stainless steel fasteners. Sold Singularly.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- Equivalent light to a 300W halogen

SPECIFICATIONS	SL3918	SL3919
Beam Pattern	Flood	Spot
Beam Distance	183m	378m
Lumen Output	3486	3486
Equivalent Halogen Lamp	300W	
Input Current	2.4A (12VDC), 1.2A (24VDC)	
Operating Temp	-40°C - 60°C	
Dimensions	120(Dia.) x 82(D)mm (excluding bracket)	

Type		Cat.	Qty 1+	Qty 2+	Qty 6+
Flood	Each	SL3918	$94.90	$84.90	$75.90
Spot	Each	SL3919	$94.90	$84.90	$75.90

Ben Gardiner likes to

think. possible.

"It's time to have wall switches and dimmers that replace existing home fixtures, so we can automate even an old house with standard wiring. HomePod would become a great home assistant in conjunction with 'like for like' swappable wallplates so every home can become smart! Even a Jaycar equivalent maybe?"

For next day delivery, or Click and Collect, see page 5

External Lights & Spotlights CONTINUED

6,300 LUMEN 6.5 INCH SOLID LED LIGHTS

1 YEAR WARRANTY

With a pair of these fitted to the front of your vehicle, you have the equivalent of over 1000W of halogen light (or over 12,000 lumens in the new speak). They are built tough as nails as well - with an IP68 water and dust proof rating, powder-coated diecast aluminium main body, unbreakable polycarbonate lens, marine grade stainless steel fasteners, and high grade electronic circuitry to protect the 7 Cree XM-L LEDs and drive them at maximum efficiency. You would be hard pressed to find a better LED light at a better price. Each unit supplied with a 2m wire harness with waterproof connector, and 2 bracket options to suit different applications. For off-road use only. Sold individually.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- High quality LED driver electronics
- Equivalent light to 500W halogen

SPECIFICATIONS	BOTH
Beam Pattern	SL3920: Flood/Spot SL3921: Spot
Beam Distance	SL3920: 523m SL3921: 648m
Lumen Output	6,300
LED Type	7 x 10W Cree® XM-L
Equivalent Halogen Lamp	>500W
Input Voltage	9-36VDC
Input Current	6.6A(12VDC), 2.64A(24VDC)
Operating Temp	-40°C - 60°C
Dimensions	160(Dia.) x 90(D)mm (excluding bracket)

Type		Cat.	Qty 1+	Qty 2+	Qty 6+
Driving Light	Each	SL3920	$179.00	$160.90	$142.90
Driving Spotlight	Each	SL3921	$179.00	$160.90	$142.90

SPOTLIGHT COVERS

Keep your LED spotlights covered and protected when not in use or change the light to blue or amber for various driving and weather conducting fog. Pack includes one each of:

- Clear blue
- Clear amber
- Solid white

Because the LED lamps run cooler, you can run the lights with the covers on. Great for foggy/misty conditions. (A quartz lamp would melt the cover!)

Type	Cat.	Qty 1+	Qty 2+	Qty 6+
4.5" White Spotlight Cover	SL3963	$13.90	$12.50	$11.10
6.5" White Spotlight Cover	SL3965	$17.90	$16.10	$14.30

automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

Lighting Accessories

UNIVERSAL BULLBAR MOUNTING BRACKETS

These brackets are designed to mount driving lights, spotlights, UHF antenna's and other various applications to a tube frame (such as a bull-bar). Allows for much easier attachment to bull-bars, trailer railing, ute roll-bars or even a roof rack. Stainless steel construction with shockproof rubber insulation so your tube frame isn't scratched or dented. Ideal for use with our range of 12VDC LED lights SL3914, SL3912, SL3916, SL3918, SL3920 and SL3922. 3 sizes available to fit various diameter frames:

SL3929

Diameter		Cat.	Qty 1+	Qty 2+	Qty 6+
25-38mm	Bullbar Mount	SL3925	$19.90	$17.70	$15.70
40-52mm	Bullbar Mount	SL3927	$19.90	$17.70	$15.70
70-80mm	Bullbar Mount	SL3929	$24.90	$22.40	$19.90

tech talk — How To Wire Up Driving Lights

Fitting spotlights or driving lights to your 4WD, ute or other vehicle is generally pretty simple when you use a relay wiring kit like our SY4081 below, but it pays to wire it correctly to avoid any hassles with the law. Most states follow the requirements of the Australian Design Rules (ADRs), which requires that they be wired so that they only operate in conjunction with the head light circuit and are fitted with an independent ON/OFF switch - however some states require them to only operate in conjunction with the HIGH beam circuit and with an independent switch. Check with your local transport authorities for rules in your area.

12VDC 30A RELAY WIRING KITS

Taking a shortcut might be fine when you're driving through the bush. But don't do it with your electrical wiring. These relay kits take the hassle out of figuring out relay wiring, to provide a safe and easy method to install any high current device. That might be a fridge, driving lights, awning lights, or anything else. By wiring through a relay, you're not feeding all the power through your switch mechanism, which keeps the high current cabling to a minimum. They're easy to install and will save you time. Two models available. Each kit includes a 2m wiring loom, 30A relay, a contura style switch, and one or two high current outputs.

SPECIFICATIONS	BOTH
Rated Voltage	12VDC
Maximum Current	30A @ 12VDC
Cable Length	2m

	Wiring	Cat.	Qty 1+	Qty 10+	Qty 25+
30A	Single	SY4081	$45.90	$40.90	$35.90
30A	Dual	SY4184	$56.90	$50.90	$44.90

Dale Shaw likes to

think. possible.

"The obvious change in the near future is the addition of voice. Alexa, Siri, Bixby and ... jeez ... Cortana. That makes the keyboard and mouse less important (but not redundant). The biggest change is in displays. What will be a display? Or .. maybe, what will NOT be a display?"

12V Lighting Controller

12V 60A WIRELESS LIGHTING CONTROLLER

This extremely useful lighting controller gives you wireless control over your light bars, driving lights, caravan lights and any other 12V powered device. 8 output channels over two zones provides the ability to switch lights on and off at the touch of a button. The two main (green and blue) zones each have 4 outputs for up to 20, 5, 3.5, and 1.5A output respectively. Total power load is up to 60A (that's a lot of light bars!). The controller is fused for safety, so you can connect it straight to your vehicle battery, and your light bars to the controller - simple! Lights are quickly connected into the screw-down terminals, and the control box has mounting tabs for secure mounting in your vehicle.

SPECIFICATIONS	MS6210
Max Power Output	12VDC @ 60A
Rated Input Voltage	12VDC
Working Voltage	11-15VDC Input
Low Voltage Protection	9.5VDC +/- 0.3VDC
Remote Control Battery	12V A23 Alkaline (included)
Wireless Frequency	433MHz
Dimensions	135(W) x 132(D) x 35(H)mm (Excluding Cables)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
8 Channel	MS6210	$79.90	$71.90	$63.90

Thomas Hadley likes to

think. possible.

"My ICD or cardiac defibrillator implant has a short battery life and needs surgery to be recharged or replaced. I think it will evolve to be longer battery life and charged externally without surgery. Also an app will be available for ambos to check it."

$500 Gift Card Winner

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Car Lighting - Exterior

Warning: State roads & traffic authorities prohibit the retrofitting of these products to cars with normal headlights. To be used only for off-road and showroom vehicles when replacing quartz halogen bulbs, or as headlight replacements for HID factory-fitted new model vehicles.

SLIM BALLAST XENON HID LIGHT KITS

HID provides far greater light output than standard automotive lights. At night, road signs, pedestrians, and general road hazards will receive much better illumination so you can drive with more confidence. This series of kits all feature a slim ballast design for ease of installation in engine bays and tight spaces.

- Ballast dimensions: 85(L) x 61(W) x 15(H)mm
- Lifespan: >2500 hours
- 300% more light than halogen
- HID 92 Lumens per watt compared to 18 Lumens per watt for a halogen

H1 Slim Ballast HID Kit 12V 6000K SL3490

H4 Slim Ballast HID High/ Low Kit 12V 6000K SL3495

H7 Slim Ballast HID Kit 12V 6000K SL3496

Note: Please ensure your lights are angled correctly. These lights are not ADR approved.

1 YEAR WARRANTY

Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V	H1	SL3490	$74.90	$67.40	$59.90
12V	H4 High + Low	SL3495	$99.90	$89.90	$79.90
12V	H7	SL3496	$74.90	$67.40	$59.90

H4 HID SINGLE BEAM BULB - 35W

Drop-in replacement H4 HID bulb.

- Power: 35W
- Lumination: 2500 - 3,500 Lumens
- Lifespan: 3000 hours
- Colour Temperature: 3000 - 6000K
- Voltage 7: 0 - 100V

Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V	H4	SL3412	$18.90	$16.70	$14.70

REPLACEMENT BULB

Used in the latest model luxury and high performance cars, High Intensity Discharge (HID) vehicle headlights are far brighter, whiter and more efficient than their quartz halogen predecessors. This HID dual lamp conversion kit is suitable for H4 bases and incorporate the latest in German engineering.

- 35W HID Xenon lamps
- 6000K colour temperature comparable to sunlight
- Extra bright 3200 lumens

1 YEAR WARRANTY

	Cat.	Qty 1+
Replacement High/Low HID Bulb	SL3414	$16.90

HEADLAMP KITS WITH LUXEON Z ES LEDS

Bright vehicle headlamps with advanced LUXEON Z ES LEDs. Each light comes in an alloy bodied case and connects via the supplied ballasts. The kit contains 2 x LED modules, 2 x controller assemblies, and all the wiring is pre-terminated to appropriate connectors to make installation as quick and easy as possible. 3,000 lumens for 40W (H4) of power light output. These modules will last up to 10,000 hours and are very efficient.

- Accurate LED position to ensure correct beam pattern
- More spot without glare
- Plug and play
- High intensity

LUXEON Z ES LEDs

SPECIFICATIONS	SL3524
LED Type	2 x LUXEON Z ES
Colour Temperature	5,500K
Lumens	3,800
Operation Mode	High and Low
Power	40W
Input Voltage	8VDC - 48VDC
Lifetime	10,000 hours
Dimensions	84(L) x 42(W)mm

1 YEAR WARRANTY

Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12/24V	H4 High + Low	SL3524	$229.00	$205.90	$182.90

For next day delivery, or Click and Collect, see page 5

Car Lighting - Interior

T5 & T10 REPLACEMENT LED GLOBES - 12VDC

Replace or jazz up your automotive dashboard or indicator lighting with LEDs! Not only will they spruce up the look of your car, they are also long life with low current consumption and total reliability.

- T5 & T10 sizes to suit most applications

T5 STYLE

T10 STYLE

				Cat.	Qty 1+	Qty 2+	Qty 4+
T5	Wedge	LED Globe	White	ZD0380	$2.50	$2.00	$1.70
T5	Wedge	LED Globe	Red	ZD0381	$2.50	$2.00	$1.70
T5	Wedge	LED Globe	Blue	ZD0382	$2.50	$2.00	$1.70
T5	B8.5D	LED Globe	White	ZD0384	$3.00	$2.60	$2.20
T5	B8.5D	LED Globe	Red	ZD0385	$3.00	$2.60	$2.20
T5	B8.5D	LED Globe	Blue	ZD0386	$3.00	$2.60	$2.20
T10	Wedge	LED Globe	White	ZD0390	$2.50	$2.00	$1.70
T10	Wedge	LED Globe	Red	ZD0391	$2.50	$2.00	$1.70
T10	Wedge	LED Globe	Blue	ZD0392	$2.50	$2.00	$1.70
T10	Wedge	LED Globe	Quad White	ZD0394	$4.50	$3.70	$3.40
T10	Wedge	LED Globe	Quad Red	ZD0395	$4.50	$3.70	$3.40
T10	Wedge	LED Globe	Quad Blue	ZD0396	$4.50	$3.70	$3.40

LED T10 3D WEDGE GLOBE

Many cars are now employing an electronic control system called CANBus, which can be a problem when using LED replacement globes as the system will give a globe failure indication. Being CANBus compatible, these LED globes don't cause these failure indications. Each globe features a special "3D" type of LED lamp, which provides an extremely even, wide light output that is very similar to a normal globe in style and appearance. This makes them a perfect replacement for interior lights, and automotive lamps where the light fitting has a lot of "clear" elements making other LED globes unattractive to look at. Powered by 12VDC, and suitable for off-road use only.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD0760	$16.90	$14.90	$13.90

SOCKET FOR T10 WEDGE GLOBE

Socket to suit T10 wedge globes.

- Pre-wired with 15cm red and black wires
- Rubber base allows easy press fitting

	Cat.	Qty 1+	Qty 10+	Qty 50+
	SL2661	$4.50	$4.00	$3.60

4 X RGB LED STRIPS WITH CONTROLLER FOR CAR INTERIOR

NEW

Add some colour and lighting effects to your car interior with these bright RGB LED light strips. The kit includes four LED strips with twelve LEDs in each, a controller and a remote control. The LEDs can be remotely controlled to change between eight different colours with four different lighting patterns. The lights can be set to change with the beat of the music, and the brightness and speed can also be adjusted.

SPECIFICATIONS	SL3948
Power:	12VDC
LED Quantity:	4 X 12 5050 SMD LED
Standby power consumption:	<1W
Output current:	<2A (per loop)
Colours:	Red, Green, Blue, White, Orange, Yellow, Cyan, Purple
Dimensions:	Controller: 63(L) × 35(W) × 22(D)mm
Remote Control:	84(L) × 51(W) × 7(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL3948	$22.90	$20.90	$17.90

LED REPLACEMENT GLOBES WITH 6 X 5730SMD LEDS

This range of common automotive and general use LED globes are also compatible with modern CANBus systems, so that they don't give globe failure warnings when you fit them to your modern vehicle. Each globe is powered by 12VDC, is fitted with six high brightness 5730SMD type LEDs, and have a non-polarity circuit so you don't have to worry about fitting them the right way around. There are three models to choose from:

- 150 Lumens

1 YEAR WARRANTY

CAT NO.	BASE	LED TYPE	BEAM	COLOUR	DIMENSIONS
ZD0732	E10 screw	6x5730SMD	360°	White	28(H) x 12(Dia)mm
ZD0734	BA9S bayonet	6x5730SMD	360°	White	28(H) x 12(Dia)mm

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
E10 Screw	ZD0732	$19.90	$17.90	$15.90
BA9S Bayonet	ZD0734	$19.90	$17.90	$15.90

LED BA9S 3D GLOBE

Many cars are now employing an electronic control system called CANBus, which can be a problem when using LED replacement globes as the system will give a globe failure indication. Being CANBus compatible, these LED globes don't cause these failure indications. Each globe features a special "3D" type of LED lamp, which provides an extremely even, wide light output that is very similar to a normal globe in style and appearance. This makes them a perfect replacement for interior lights, and automotive lamps where the light fitting has a lot of "clear" elements making other LED globes unattractive to look at. Powered by 12VDC, and suitable for off-road use only.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD0762	$16.90	$14.90	$13.90

Canbus Compatible Globes

LED FESTOON REPLACEMENT GLOBES, CANBUS COMPATIBLE

A range of ultra-bright LED replacement "festoon" globes for car interior lights, which are fully compatible with modern "CANBus" systems that would otherwise give a globe failure warning when using an LED globe. Each globe features six ultra bright wide angle SMD LEDs, a non-polarity circuit (can fit the globe either way), and a CANBus circuit. There are three models to chose from, each working on 12VDC.

ZD0750

ZD0752

ZD0754

1 YEAR WARRANTY

CAT NO.	SIZE	LUMENS	LED TYPE	BEAM	COLOUR
ZD0750	31mm	150	6x5730SMD	120°	White
ZD0752	36mm	150	6x5730SMD	120°	White
ZD0754	41mm	150	6x5730SMD	120°	White

size	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	ZD0750	$17.90	$16.10	$14.30
36mm	ZD0752	$17.90	$16.10	$14.30
41mm	ZD0754	$17.90	$16.10	$14.30

LED FESTOON 3D GLOBE

Many cars are now employing an electronic control system called CANBus, which can be a problem when using LED replacement globes as the system will give a globe failure indication. Being CANBus compatible, these LED globes don't cause these failure indications. Each globe features a special "3D" type of LED lamp, which provides an extremely even, wide light output that is very similar to a normal globe in style and appearance. This makes them a perfect replacement for interior lights, and automotive lamps where the light fitting has a lot of "clear" elements making other LED globes unattractive to look at. Powered by 12VDC, and suitable for off-road use only.

	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	ZD0764	$22.90	$20.90	$17.90
36mm	ZD0766	$22.90	$20.90	$17.90
42mm	ZD0768	$22.90	$20.90	$17.90

Canbus Compatible Globes

CANBUS COMPATIBLE AUTOMOTIVE BA15 TYPE LED REPLACEMENT GLOBES

1 YEAR WARRANTY

More and more modern vehicles are employing an electronic control system called CANBus, which has many benefits including monitoring of globe failures. This can pose a bit of a problem with LED replacement globes causing the CANBus to detect that globe as having failed. This range of BA15 type LED globes are all CANBus compatible (won't give errors), with universal polarity, very low power consumption and a high lumen output. For off-road use only.

- Powered by 12VDC, can be used as tail/ brake light (BAY15D), parker light (BA15S), or even as interior light globes (BA15D/ BA15S) thanks to their high brightness
- The BA15D is very commonly used in caravan and marine interior lights

Three types available

CAT NO.	BASE	LUMENS	LED TYPE	BEAM	COLOUR	DIMENSIONS
ZD0740	BAY15D	525	21 x 5730SMD	360°	White	50(H) x 18(Dia.)mm
ZD0742	BA15D	525	21 x 5730SMD	360°	White	50(H) x 18(Dia.)mm
ZD0744	BA15S	525	21 x 5730SMD	360°	White	50(H) x 18(Dia.)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Stop/Tail Lamp CANBus	ZD0740	$24.90	$22.40	$19.90
Interior/Navigation Lamp CANBus	ZD0742	$24.90	$22.40	$19.90
Interior/Park/Reverse Lamp CANBus	ZD0744	$24.90	$22.40	$19.90

360° "3D" BA15 TYPE LED AUTOMOTIVE REPLACEMENT GLOBES, CANBUS COMPATIBLE

Many cars are now employing an electronic control system called CANBus, which can be a problem when using LED replacement globes as the system will give a globe failure indication. Being CANBus compatible, these LED globes don't cause these failure indications. Each globe features a special "3D" type of LED lamp, which provides an extremely even, wide light output that is very similar to a normal globe in style and appearance. This makes them a perfect replacement for interior lights, and automotive lamps where the light fitting has a lot of "clear" elements making other LED globes unattractive to look at. Powered by 12VDC, and suitable for off-road use only.

1 YEAR WARRANTY

Three models available:

CAT NO.	BASE	LUMENS	LED TYPE	BEAM	COLOUR	DIMENSIONS
ZD0746	BAY15D	300	"3D" LED	360°	White	50(H) x 18(Dia.)mm
ZD0748	BA15D	300	"3D" LED	360°	White	50(H) x 18(Dia.)mm
ZD0749	BA15S	300	"3D" LED	360°	White	50(H) x 18(Dia.)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Stop/Tail	ZD0746	$42.90	$38.60	$34.30
Interior/Navigation	ZD0748	$42.90	$38.60	$34.30
Interior/Park/Reverse	ZD0749	$42.90	$38.60	$34.30

REVERSING LED LIGHT GLOBE WITH BEEPER

Replacement LED reversing light with built-in warning buzzer to warn pedestrians that you are reversing. Great for large caravans, trucks and buses. Suits vehicles with P21W BA15S reverse light bulbs.

- 9 Super Bright White LEDs
- Brightness: >6000 lux
- Input voltage: 12VDC
- Current: <400mA
- Max SPL: 115dBs

	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD0519	$11.90	$10.70	$9.50

tell a friend

If you have a technical friend or someone who may be just interested in some of the products we stock, tell them to email their address details to:

CATALOGUE DEPARTMENT - JAYCAR:

catalogue@jaycar.com

tech talk Automotive Globes

You may look at our range of LED automotive globes and wonder what all these different globe numbers mean: BA15S, T10, E10, BAY15D, etc.

Well luckily these numbers are an industry standard, and actually describe the type and size of the globe's base and pin arrangements.

Below is a list of the most common types of automotive globes, and a typical application for them:

T5	5mm wedge style base. Used in dashboard illumination
T10	10mm wedge style base. Used in dashboards, park light, number plate illumination, etc.
T20	20mm wedge style base. Used in some indicators, tail and brake lights
E10	10mm Edison screw base. Used in some dashboards, park lights and number plate illumination (typically on older vehicles)
BA9S	9mm Bayonet cap base with single contact pin. Used in dashboards, park lights and various lights
BA15S	15mm Bayonet cap with single contact pin. Used in indicators, tail, parker and some brake lights
BA15D	15mm Bayonet cap with two contact pins. Used in caravan interior lights and marine navigation lights
BAY15D	15mm Bayonet cap with offset side location tabs, with two contact pins on the base. Used for tail/stop lights (high/low brightness)

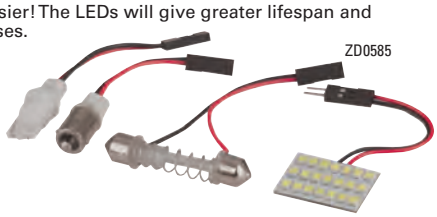
Car Lighting Kits

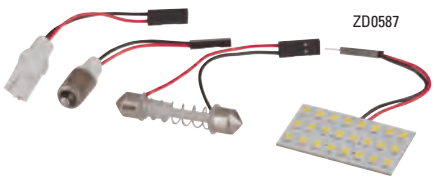
UNIVERSAL T10/211/BA9S LED RETROFIT KITS

Fantastic little kits to upgrade your car/caravan/boats interior lighting with LED technology. Each kits consists of an array of LEDs on a board with 3M adhesive foam backing, making it easy to retrofit into almost any existing light. There are 3 bases which can connect to T10, 211, or BA9S sockets. The base is then connected to the SMD LED array, couldn't be easier! The LEDs will give greater lifespan and brighter light in many cases.

Three kits available:

21 X SMD LEDS - ZD0585
24 X SMD LEDS - ZD0587
36 X SMD LEDS - ZD0589





1 YEAR WARRANTY

SPECIFICATIONS	ZD0585	ZD0587	ZD0589
Power	2.5W, 12VDC	3W, 12VDC	4.5W, 12VDC
Lumens	260	310	450
LED Type	2835 SMD	2835 SMD	2835 SMD
LED Count	21	24	36
LED Colour	Cool white	Cool white	Cool white
Dimensions	25(L) x 20(W)mm	45(L) x 25(W)mm	60(L) x 40(W)mm

Lumens	Power	Cat.	Qty 1+	Qty 2+	Qty 4+
260	2.5W	ZD0585	$11.90	$10.70	$9.50
310	3W	ZD0587	$17.90	$16.10	$14.30
450	4.5W	ZD0589	$19.90	$17.90	$15.90

monthly specials & promotions

Lookout for our monthly promotions in store and online.

For next day delivery, or Click and Collect, see page 5

Car Lighting - Trailer Lights

12V LED TRAILER LIGHTS (STOP/TURN/TAIL)

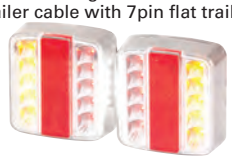
Regular bulb failures in your trailer lights are not only a pain in the posterior, but also quite dangerous to your fellow road users. Switching to LED alternatives solves this problem completely, since LEDs are not at all affected by shock and vibration, last over 50,000 hours, use a fraction of the power, and are actually more visible to other road users. These trailer lights are an "all-in-one" solution measuring only 100mm wide by 90mm high, and providing all the legal illumination needs of a caravan, boat trailer, camping trailer etc., being; Stop, Tail, Turn and number plate illumination. They appear to be quite water resistant but we cannot quote an IP rating for water and dust. Also has a red reflector panel.

- Screw stud mount.
- Dimensions: 100(W) x 90(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pair	ZD0720	$54.90	$49.40	$43.90

12V LED TRAILER LIGHT KIT WITH WIRING

Regular bulb failures in your trailer lights are not only annoying to replace, but also quite dangerous. LED alternatives solves this problem completely, since LEDs are not at all affected by shock and vibration, last over 50,000 hours, use a fraction of the power, and are actually more visible to other road users. These trailer lights are an "all-in-one" solution measuring only 100mm wide by 90mm high, and providing all the legal illumination needs of a caravan, boat trailer, camping trailer etc., being; Stop, Tail, Turn and number plate illumination, along with a red reflector panel. The housing is submersible which is perfect for boat trailers, and each light is fitted with a connector to make wiring easier. The kit includes 2x trailer lights, a pre-made 7m trailer cable with 7pin flat trailer connector.
Sold as a pair.



- ADR Approved
- Screw stud mount.
- 7m pre-made trailer cable included
- Dimensions: 100(W) x 90(H)mm (each)

	Cat.	Qty 1+	Qty 2+	Qty 4+
Pair with Wiring	ZD0722	$86.90	$78.20	$69.50

Trailer Wiring Accessories

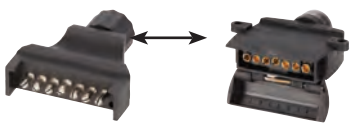
Before 1988, the only trailer connector in common use was a 6 pin unit (There were some 5 pin plug/sockets found in Victoria, TAS, SA & NT). Since 1988 you must have a 7 pin (minimum) connector in order to register your boat, camper trailer etc. (You may need a bigger connector in some cases, so consult an auto electrician for this) in both Australia & New Zealand. You can, however, in the case of small box trailers use 5 core wire. See below.

TRAILER CONNECTORS
There are now three types of trailer connectors - each with its own wiring configuration. See our website for full details of pin connectors and colours...

RE-WIREABLE TRAILER CONNECTORS - 7 PIN

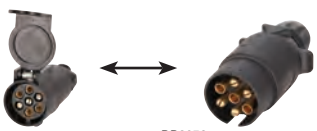
A range of the most common 7 pin trailer plugs and sockets, featuring easy to use screw down terminals, corrosion resistant metal contacts and high quality UV stabilised plastics. In each type, the socket is fitted to the vehicle, and the plug is fitted to the trailer.

- All trailer plugs and adaptors are made from the highest quality material.



PP2050 PS2051

PS2056



PS2053 PP2052

PP2054

	Cat.	Qty 1+	Qty 10+	Qty 50+
7 Pin Flat Plug	PP2050	$10.90	$9.70	$8.50
7 Pin Flat Socket	PS2051	$10.90	$9.70	$8.50
7 Pin Large Round Plug	PP2052	$10.90	$9.70	$8.50
7 Pin Large Round Socket	PS2053	$10.90	$9.70	$8.50
7 Pin Small Round Plug	PP2054	$10.90	$9.70	$8.50
7 Pin Small Round Socket	PS2056	$10.90	$9.70	$8.50

TRAILER PLUG ADAPTOR LEADS - 7 PIN

Often we find that the trailer we've borrowed from a mate does not plug into the socket on your vehicle, and that's where these trailer plug adaptor leads come in handy. About 300mm in length, and 6 versions available to fix up any mismatch of the 7 Pin Flat, 7 Pin Large round and 7 Pin Small round trailer connectors. Remember, match the plug end of the adaptor to the socket on your car, and the socket end of these adaptors to the plug end on your trailer.

- All trailer plugs and adaptors are made from the highest quality material

PA2061

PA2062

PA2063

PA2064

PA2065

PA2066

	Cat.	Qty 1+	Qty 3+	Qty 6+
7 Pin Flat Plug to 7 Pin Large Round Socket	PA2061	$19.90	$17.90	$15.90
7 Pin Flat Plug to 7 Pin Small Round Socket	PA2062	$19.90	$17.90	$15.90
7 Pin Small Round Plug to 7 Pin Flat Socket	PA2063	$19.90	$17.90	$15.90
7 Pin Large Round Plug to 7 Pin Flat Socket	PA2064	$19.90	$17.90	$15.90
7 Pin Small Round Plug to 7 Pin Large Round Skt	PA2065	$19.90	$17.90	$15.90
7 Pin Large Round Plug to 7 Pin Small Round Skt	PA2066	$19.90	$17.90	$15.90

5 CORE BOX TRAILER CABLE - 10M - TINNED

A 10 metre length of the standard 5 conductors sheathed in a tough black PVC jacket. Conductor colours are listed below. Makes wiring easy.

- Yellow (Left indicator)
- White (Earth)
- Green (Right indicator)
- Red (Stop light)
- Brown (Tail light, no. plate & clearance)

** Suitable for box trailers only.*
You still must use 7 pin connectors.

NOW TIN PLATED, AT NO EXTRA CHARGE

	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Core	WH3091	$48.90	$43.00	$36.60

7 CORE TRAILER WIRING LOOM - 10M - TINNED

A 10 metre length of the standard 7 conductors sheathed in a tough black PVC jacket. Conductor colours are listed below. Makes wiring easy. 10m accommodates even up to quite large boat trailers.

- Yellow (Left indicator)
- Black (Aux/reversing)
- White (Earth)
- Green (Right indicator)
- Blue (Electric brakes)
- Red (Stop light)
- Brown (Tail light, no. plate & clearance)

NOW TIN PLATED, AT NO EXTRA CHARGE

	Cat.	Qty 1+	Qty 4+	Qty 10+
7 Core	WH3090	$54.90	$47.90	$40.90

sight & sound

HDMI cables & accessories 437
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home theatre

no place like home

No, you still can't buy an 86 inch 4K OLED TV from us. There are plenty of retailers who have large showrooms to do that. As usual though, the well-known retailers fall over when you want more than just a TV. If your home cinema needs to run to anything more, its likely that you will find that the floor salesperson will refer you to Jaycar. We kid-you not!

Watch them if you mention "HDMI router", for example.

And that's where we are useful to you. We have the best range of home theatre "black boxes" which transform your TV watching to a total multimedia experience.

Not only that, as you can see, we now stock the Alexa Home Smart display. We also have Wi-Fi and Bluetooth coupled products to expand the possibilities of home-assistance automation!

home theatre & audio:

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Smart Display

Just Ask Anything!!!

7" Alexa-Home Smart Display

works with the Google Assistant

NEW

amazon alexa

Wi-Fi

7" SCREEN!

4K UHD

Use Alexa or Google Voice Services to play music, find recipes, catch up on the latest news and even control smart home appliances. State-of-the-art design Smart Speaker fits perfectly into any home decor. Vibrant 7" screen with an amazing quality sounding speaker. Light weight and portable, the built-in battery gives you hours of music playback.

- Octa-Core Processor
- Built-in 5MP Camera
- HDMI Output
- micro SD Port
- Google Android 7.1 Operating System

SPECIFICATIONS	XC6005
Bluetooth Version	V4.0BLE
Diagonal Screen Size	7.0 in
Maximum Capacity	16.0 GB
Screen Resolution	Ultra HD (2160p / 4K x 2K)
Dimensions	195(W) x 190(H) x 110(D)mm

	Cat.	Qty 1+
7"	XC6005	$339.00

quality "Concord" brand media centre equipment

For years the Concord brand has been synonymous with high quality HDMI leads that deliver fantastic value for money.

We can now proudly announce, that through strategic partnerships with leading factories, we have significantly added to our range of quality Concord HDMI components. Concord HDMI leads and components feature leading technical specifications at a fraction of the price of other brands.

When you see the Concord brand you know that the components within the range are quality tested from known well-run factories that have the 100% backing of the Jaycar group.

Concord products are a cut above generic technical product sold elsewhere.

Smart Media Player

SMART MEDIA PLAYER WITH VOICE ASSIST

NEW

Wi-Fi

Turn your tv into a media centre with this Media Player box. Connects via HDMI to provide up to 4Kx2K Full HD content via the on-board 8GB storage, from the USB and MicroSD inputs, or directly off the internet using the in-built LAN or Wi-Fi connections. The android operating system lets you browse your content and download your favourite content streaming Apps. It's easy to use and will respond instantly thanks to the Quad-Core processor, and you can control it all using the included multimedia remote control or by using your own smartphone and the free remote control App. You can even utilise the Voice Assist feature to speak into your remote control and search the Media Player, YouTube, the App store, and even enabled Apps. This Media Player is packed with features, you'll wonder how you got by without one before!

- Quad-Core Processor: High Speed, Quick Response
- 1GB RAM, 8GB In-Built Memory
- USB & MicroSD Input
- HDMI
- 4K Ultra HD
- Wi-Fi

4K UHD

Note: Stan streaming service is not supported with this device.

works with the Google Assistant

CONCORD

SPECIFICATIONS	XC6010
CPU	Amlogic A53 Quad-Core @ Up to 2.0GHz
Memory	1GB DDR3, 8GB eMMC Flash
Operating System	Android 7.1
Wi-Fi	802.11 b/g/n
Ethernet	10/100
Video	4K*2K Full HD 1080p, 10-bit H.265/H.264/VP9
Supports	PPPOE, DLNA, Google TV Remote, LAN, 3D Movie, Email, etc
Power	5VDC, 2A

2 YEAR WARRANTY

	Cat.	Qty 1+
	XC6010	$199.00

HDMI Smart Switcher

SMART 4K UHD 4 WAY HDMI SWITCHER WITH VOICE ASSIST

NEW

2 YEAR WARRANTY

Connect up to four different HDMI sources with 4K x 2K Ultra High Definition (UHD) support, so there's no reduction in picture quality. Control using the supplied infrared remote control or with Alexa supported voice commands "Alexa switch to Xbox". It supports audio up to 7.1 surround sound, HDCP 2.2 for the latest hardware compatibility, and HDR 10-bit (High Dynamic Range) for a wider range of lifelike colours and brightness. A digital TOSLINK audio output enables you to play audio through an amplifier or active speakers.

4K UHD

- Up to 4K x 2K Video Resolution
- High-Dynamic-Range (HDR) Video Support
- Digital Stereo Audio Extractor
- Connects via Wi-Fi to your network to enable Alexa voice controls

CONCORD

amazon alexa

SPECIFICATIONS	AC5014
Inputs	4 x HDMI
Outputs	1 x HDMI, 1 x Optical TOSLINK Stereo Audio
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Colour Depth	10-bit
Power	5VDC (Mains adaptor included)
Dimensions	121(W) x 79(D) x 16(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC5014	$169.00	$151.90	$134.90

Fibre Optic HDMI Leads

ULTRA LONG HDMI 4K FIBRE OPTIC CABLES

This HDMI cable uses both fibre optic and copper cores to transmit Ultra HD 4K signals at 60Hz over 50m or 100m. They support a maximum data rate of 6Gbps per channel, with a total of 18Gbps. Lightweight, flexible, and have an ultra-small fixed installation bending radius of 20mm. With a power consumption under 250mW, there is no need for an additional power supply. Designed for indoor use.

- Supports up to 4K @ 60Hz
- Transmit full length without external power
- Up to 6Gbps per channel (18Gbps Total)
- Flexible with a fixed installation bending radius of 20mm

2 YEAR WARRANTY

NEW

4K UHD

CONCORD

Length	Cat.	Qty 1+
50m	WQ7496	$339.00
100m	WQ7498	$499.00

SPECIFICATIONS	BOTH
HDMI	2.0b, Fully Support bi-directional EDID and HDCP communication
HDCP	1.4/2.2 pass through
Video Bandwidth	18Gbps - 6Gbps per Channel + Clock
Resolution	Up to 4K (3840 x 2160) @ 60Hz
Cable Type	Hybrid type with OM3 fibre and copper wire

For next day delivery, or Click and Collect, see page 5

HDMI Splitters & Switches

2 WAY 4K HDMI SPLITTER

NEW

2 YEAR WARRANTY

Simultaneously split to two different HDMI displays from the one HDMI source, such as a Blu-ray player, set-top box, games console, or media player. With 4K x 2K Ultra-High-Definition (UHD) support, there's no reduction in picture quality so you can still enjoy the most your equipment has to offer. Supports audio up to 7.1 surround sound, HDCP 2.2 for the latest hardware compatibility, and 10-bit HDR (High-Dynamic-Range) for a wider range of lifelike colours and brightness. The smart EDID (Extended Display Identification Data) support also ensures your monitor knows how to configure correctly to match the source signal. Includes mains power adaptor.

- Up to 4K x 2K Video Resolution
- High-Dynamic-Range (HDR) Video Support
- EDID Data Transmission
- HDCP, 3D & CEC Bypass

CONCORD

4K UHD

SPECIFICATIONS	AC5000
Inputs	1 x HDMI
Outputs	2 x HDMI
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio Support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Colour Depth	10-bit
Power	5VDC (Mains adaptor included)
Dimensions	100(W) x 56(D) x 16(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC5000	$99.90	$89.90	$79.90

4 WAY 4K HDMI SWITCHER

NEW

2 YEAR WARRANTY

Connect up to four different HDMI sources, such as a Blu-ray player, set-top box, games console, or media player. With 4K x 2K Ultra-High-Definition (UHD) support, there's no reduction in picture quality so you can still enjoy the most your equipment has to offer. Supports audio up to 7.1 surround sound, HDCP 2.2 for the latest hardware compatibility, and 10-bit HDR (High-Dynamic-Range) for a wider range of lifelike colours and brightness. Audio output for playing audio through an amplifier or active speakers. Includes infrared remote control mains power adaptor.

- Up to 4K x 2K Video Resolution
- High-Dynamic-Range (HDR) Video
- 3.5mm Stereo Audio Output
- EDID Data Transmission
- HDCP, 3D & CEC Bypass

CONCORD

4K UHD

SPECIFICATIONS	AC5010
Inputs	4 x HDMI
Outputs	1 x HDMI, 1 x 3.5mm Stereo Audio
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio Support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Colour Depth	10-bit
Power	5VDC (Mains adaptor included)
Dimensions	121(W) x 79(D) x 16(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC5010	$149.00	$133.90	$118.90

4 WAY 4K HDMI SPLITTER

NEW

2 YEAR WARRANTY

Simultaneously split to four different HDMI displays from the one HDMI source, such as a Blu-ray player, set-top box, games console, or media player. With 4K x 2K Ultra-High-Definition (UHD) support, there's no reduction in picture quality so you can still enjoy the most your equipment has to offer. Supports audio up to 7.1 surround sound, HDCP 2.2 for the latest hardware compatibility, and 10-bit HDR (High-Dynamic-Range) for a wider range of lifelike colours and brightness. The smart EDID (Extended Display Identification Data) support also ensures your monitor knows how to configure correctly to match the source signal. Includes mains power adaptor.

- Up to 4K x 2K Video Resolution
- High-Dynamic-Range (HDR) Video
- EDID Data Transmission
- HDCP, 3D & CEC Bypass

CONCORD

4K UHD

SPECIFICATIONS	AC5002
Inputs	1 x HDMI
Outputs	4 x HDMI
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Colour Depth	10-bit
Power	5VDC (Mains adaptor included)
Dimensions	163(W) x 63(D) x 16(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC5002	$159.00	$142.90	$126.90

4 WAY 4K HDMI SPLITTER WITH DOWNSCALING

NEW

2 YEAR WARRANTY

Simultaneously split up to four different HDMI displays from the one HDMI source, such as a Blu-ray player, set-top box, games console, or media player. With 4K x 2K Ultra-High-Definition (UHD) support, there's no reduction in picture quality so you can still enjoy the most your equipment has to offer. A built-in downscaler function down scales 4K video to suit 1080p screens, and the audio extractor provides analogue and digital outputs to connect up an amplifier or active speakers. Supports audio up to 7.1 surround sound, HDCP 2.2 for the latest hardware compatibility, and HDR (High-Dynamic-Range) for a wider range of life-like colours and brightness. The smart EDID (Extended Display Identification Data) support also ensures your monitor knows how to configure correctly to match the source signal.

- Up to 4K x 2K Video Resolution at 60Hz
- 4K to 1080p Downscaling
- Analogue and Digital Audio Output

4K UHD

CONCORD

SPECIFICATIONS	AC5004
Inputs	1 HDMI
Outputs	4 HDMI, 1 3.5mm Stereo, 1 Optical
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio Support	LPCM [2.0/2.1]CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6, DTS-HDMA 5.1, DTS HD-HRA 5.1
Power	5VDC (Mains adaptor included)
Dimensions	180(W) x 62(D) x 14(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC5004	$209.00	$187.90	$166.90

HDMI Splitters & Extenders

4X2 4K HDMI MATRIX SWITCHER SPLITTER

NEW

2 YEAR WARRANTY

Simultaneously routes up to four HDMI sources to two HDMI displays in all resolutions up to UHD 4K at 60Hz on all ports. This will add a level of convenience for households that have two TVs but don't want to buy another set of Blu-ray players, set top boxes, etc. A single Blu-ray player connected to the matrix would output its movie to two screens. This is also great for retail service-scapes, shopping centres, reception areas, and foyers. Flexible control using the on-panel button or from the comfort of your couch using the supplied remote control. Output A supports audio extracting to optical and analogue L/R outputs, and output B supports automatic 4K to 1080p downscale function if the source is 4K but your TV only supports up to 1080p. Support for 3D signals, High Dynamic Range (HDR), audio up to 7.1 surround, and smart EDID management so switching sources will be fast with minimal interruption.

- Up to 4K Video Resolution on all ports
- Optical and analogue L/R output on output A
- 4K to 1080p downscale support on output B

4K UHD

CONCORD

SPECIFICATIONS	AC5012
Inputs	4 x HDMI
Outputs	2 x HDMI, 1 3.5mm Stereo Audio, 1 x Optical (S/PDIF)
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio Support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Power	5VDC (Mains adaptor included)
Dimensions	130(W) x 94(D) x 28(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AC5012	$289.00	$259.00	$229.00

4K WIRELESS 5.8GHZ HDMI AV SENDER

NEW

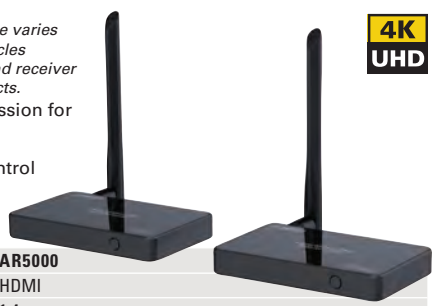
2 YEAR WARRANTY

Sends 4K UHD signals from a set top box, media player or other video sources to another room, without the need to run long cables. Ideal for Pay TV, home theatre systems, meeting rooms, or to connect a computer to a display where they may not be in close proximity. The plug-and-play system provides a stable picture with superior audio by transmitting over the 5.8GHz band using dual-antennas. For added convenience, an infrared extender is fully integrated, so you can use your remote control on the receiver end for full control of your devices too! Mounting holes in the case helps you to mount them on a wall to keep them out of view, and the sturdy metal housings reduce interference. Supplied with mains power adaptors and infrared emitter and receiver.

Note: Transmission distance varies depending upon the obstacles between the transmitter and receiver such as walls or solid objects.

- 5.8GHz digital transmission for Minimal Interference
- Up to 50m Range
- Integrated Remote Control Extender

4K UHD



CONCORD

SPECIFICATIONS	AR5000
Input/Output	HDMI
HDMI	1.4a
HDCP	2.2
HDMI Resolution	Up to 4K (3840 x 2160) @ 30Hz
Video Bandwidth	10.2Gbps
Audio Support	LPCM 2CH
IR Frequency	Supports 20-60kHz wide-band
Transfer Method	5.8GHz Wireless transmission
Transmission Distance	Up to 30m
Dimensions	121(D) x 95(W) x 20(H)mm

Cat.	Qty 1+	Qty 2+	Qty 4+
AR5000	$569.00	$509.00	$449.00

4K HDMI CAT5E/6 EXTENDER

NEW

2 YEAR WARRANTY

Send UHD 4K signals from a set top box, media player, or other video source to another room up to 50m away over a Cat6 cable. Ideal for Pay TV, home theatre systems, meeting rooms, or to connect a computer to a display where they may not be in close proximity. The plug-and-play system provides a stable picture with superior audio and supports the latest standards including HDCP 2.2, DVI 1.0, and High Dynamic Range (HDR). There is a HDMI loop output on the transmitter, and the EDID (Extended Display Identification Data) can be switched to copy either the source or output device. For added convenience, an infrared extender is fully integrated, so you can use your remote control on the receiver end for full control of your devices too! Power is sent to the receiver over the Cat cable, and the infrared emitter and receiver each have short leads that enable you to mount the main units out of view.

Note: Distance will be reduced to about 40m using Cat5e cable

- Up to 4K x 2K Video Resolution
- High-Dynamic-Range (HDR) Video Support
- Integrated Remote Control Extender

4K UHD

CONCORD

SPECIFICATIONS	AC5020
HDMI	2.0
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60Hz
Transmission Range	40m(Cat5e), 50m (Cat6)
Video Bandwidth	18Gbps
Audio Support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Power	12VDC (Mains adaptor included)
Dimensions	102(W) x 70(D) x 14(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AC5020	$289.00	$259.00	$229.00

4K HDMI AUDIO EXTRACTOR

NEW

2 YEAR WARRANTY

This converter extracts the audio stream from a HDMI signal so you can listen to the audio through your home theatre system, amplifier or active speakers. Outputs include digital SPDIF optical, digital coaxial and analogue 3.5mm stereo audio. It supports HDCP 2.2, HDCP 1.4, HDMI 2.0 and AV signals up to 4K @ 60Hz. HDR, Dolby, DTS, LPCM, and 3D video are also supported, along with an ARC (Audio Return Channel). The HDMI output enables you to still feed the video to your TV or other display! Supplied with mains power adaptor.

- Extracts audio stream from HDMI
- Suitable up to 4K @ 60Hz
- Supports: DTS HD, Dolby TrueHD (via HDMI)

4K UHD

CONCORD

SPECIFICATIONS	AC5030
Inputs	1 x HDMI
Outputs	1 x TOSLINK, 1 x Coaxial, 1 x 3.5mm Stereo, 1 x HDMI
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Audio support	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS: X
Colour Depth:	10-bit
Dimensions:	80(W) x 80(D) x 20(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AC5030	$99.90	$89.90	$79.90

For next day delivery, or Click and Collect, see page 5

Concord Quality HDMI Leads

All Concord HDMI leads share the following specifications:

SPECIFICATIONS	ALL CONCORD HDMI CABLES
Connectors	HDMI Type-A
HDMI	2.0b
HDCP	2.2, 1.4
HDR	10
Resolution	Up to 4k (3840 x 2160) @ 60/50/30Hz
Video Bandwidth	18Gbps
Colour Depth	10-bit

4K HDMI 2.0 CABLES

These premium HDMI 2.0 High Speed Ethernet cables feature heavily plated 24K gold plated connectors and oxygen-free heavy copper cabling. Each plug is solidly constructed for frequent, reliable use. Also featured are high quality moulded strain-relief cord grommets and a braided sheath to protect against wear.

4K UHD

2 YEAR WARRANTY

CONCORD

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ7906	$22.90	$20.90	$17.90
1.5m	WQ7900	$28.90	$25.90	$22.90
3.0m	WQ7902	$39.90	$35.90	$31.90
5.0m	WQ7904	$49.90	$44.90	$39.90

4K HDMI 2.0 AMPLIFIED CABLES

Long HDMI leads require amplification of the signal to ensure there's no signal loss across a long distance run. This unidirectional cable provides all amplification, and even includes a built-in equaliser that boosts the signal strength without the use of a power supply. Supports up to 4K at 60fps with Ethernet and full audio pass-through. Includes one HDMI to USB power adaptor (WQ7435/ WQ7439) when additional stability is required.

4K UHD

2 YEAR WARRANTY

CONCORD

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	WQ7437	$94.90	$84.90	$75.90
15m	WQ7438	$119.00	$107.00	$95.00
20m	WQ7435	$139.00	$124.90	$110.90
30m	WQ7439	$159.00	$142.90	$126.90

4K HDMI 2.0 TO HDMI MINI-C CABLE

NEW

Designed to connect portable devices using the latest Mini HDMI Type C connector to a monitor or device with an HDMI Type A socket. Supports High Dynamic Range (HDR), 12-bit Deep Full HD, Full 3D and Ultra HD 4K signals at 60Hz. The 1.5m flexible cable is made using 99.99% oxygen free tinned copper conductors to high quality 24K gold plated plugs with zinc alloy housings.

- High Dynamic Range (HDR)

2 YEAR WARRANTY

4K UHD

CONCORD

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ7908	$28.90	$25.90	$22.90

4K HDMI 2.0 TO HDMI MICRO-D CABLE

NEW

Designed to connect portable devices using the latest HDMI Micro-D connector to a monitor or device with an HDMI Type A socket. Supports High Dynamic Range (HDR), 12-bit Deep Full HD, Full 3D and Ultra HD 4K signals at 60Hz. The 1.5m flexible cable is made using 99.99% oxygen free tinned copper conductors to high quality 24K gold plated plugs with zinc alloy housings.

- 4K UHD
- HDMI 2.0b
- High Dynamic Range (HDR)

2 YEAR WARRANTY

4K UHD

CONCORD

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ7910	$28.90	$25.90	$22.90

FIBRE OPTIC AUDIO CABLES

A range of fibre optic toslink cables with superb build quality. The tips are gold plated to prevent corrosion so your connections remain solid. Suitable for achieving excellent audio reproduction in home cinemas that support Dolby Digital 5.1 (AC-3) surround sound, DTS, and more.

2 YEAR WARRANTY

CONCORD

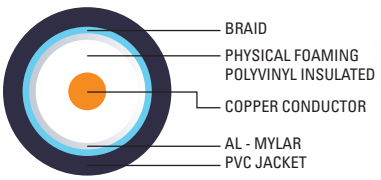
Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.0m	WQ7301	$19.90	$17.90	$15.90
3.0m	WQ7302	$34.90	$31.90	$27.90
5.0m	WQ7303	$49.90	$44.90	$39.90

FLEXIBLE TV COAX CABLES

NEW

Super flexible coax leads that makes it easier to run through entertainment cabinets and along skirting boards, etc. The flexibility helps prevent tangles and kinking. They are black in colour, use quality RG6 quad shielded coax cable, and terminated to quality gold plated connectors.

WV7460



WV7464

2 YEAR WARRANTY

CONCORD

Type	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Coaxial Plug to Coaxial Plug	3m	WV7460	$16.90	$14.90	$13.90
Coaxial Plug to Coaxial Plug	10m	WV7462	$28.90	$25.90	$22.90
Coaxial Plug to F Plug	3m	WV7464	$16.90	$14.90	$13.90
Coaxial Plug to F Plug	10m	WV7466	$28.90	$25.90	$22.90
F Plug to F Plug	10m	WV7468	$28.90	$25.90	$22.90
F Plug to F Plug	20m	WV7470	$39.90	$35.90	$31.90

Media Streaming

4K WI-FI HDMI MIRACAST DONGLE

NEW

Stream media from your Smartphone, Tablet or PC to your HDTV across your Wi-Fi network. Plug the dongle into your TVs HDMI port and begin playing YouTube, videos and other streaming services straight to your TV. Supports video resolution up to 4K Ultra High Definition, and works well with Google Assistant. USB power is required, which can be derived from a USB port on the TV or by using a USB mains power adaptor (Not included). The dongle supports 2.4G or 5.8G Wi-Fi networks, and is compatible with DLNA, Miracast, Airplay and EZMira. Works with Android, iOS, macOS and Windows.

- Up to 4K Resolution
- DLNA, Miracast, Airplay and EZMira
- Works with Google Assistant and Amazon Alexa

1 YEAR WARRANTY

4K UHD

Wi-Fi

works with the Google Assistant

amazon alexa

SPECIFICATIONS	AR1924
Output	1 x HDMI 1.4a
Power	1 x Micro USB socket
Resolution	Up to 4K @ 30Hz
Supported Video Formats	avi, divx, mkv, ts, dat, vob, mpg, mpeg, mov, mp4, rm, rmvb, wmv
Supported Audio Formats	MP1/MP2,/MP3, WMA, OGG, ADPCM-WAV, PCM-WAV, AAC
Supported Photo Formats	JPEG/BMP
Transmission	DLNA , Miracast , Airplay , EZMira

	Cat.	Qty 1+	Qty 3+	Qty 6+
4K	AR1924	$94.90	$84.90	$75.90

HDMI Leads

BARGAIN HDMI 2.0 CABLE

Sometimes you don't need all the extra features of the top quality cables. This will still provide high quality 1080p vision, and it is such a bargain, you can grab spares!

- 1.5m length
- Full HD compatible

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WV7913	$5.90	$5.30	$4.70

HDMI 1.3 CABLE WITH ROTATING PLUGS

HDMI cable with a difference - the plug on each end of the cable rotates through 180° to accommodate whatever installation challenge you have.

- 1.5m length
- HDMI 1.3 compliant

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ7401	$15.90	$13.90	$12.90

ECONOMY HDMI 1.4 CABLES

HDMI leads needn't cost an arm and a le.g. If your budget doesn't extend too far, these leads are a cost-effective solution without compromising quality or performance. All have gold plated connectors and have HDMI 1.4 Standard with Ethernet classification.

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV7915	$16.90	$14.90	$13.90
3.0m	WV7916	$22.90	$20.90	$17.90
5.0m	WV7917	$31.90	$27.90	$24.90
10m **NEW**	WV7918	$56.90	$50.90	$44.90

30CM HDMI EXTENSION CABLE (PASSIVE)

Perfect for connecting streaming devices and dongles into hard-to-reach places, or tight spaces. HDMI 2.0 compatible for 4K at up to 60fps.

- Convenient
- HDMI 2.0 compatability (4K up to 60fps)
- Ports: HDMI Socket, HDMI Plug
- Weight: 24g
- Cable Length: 300mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WV7905	$16.90	$14.90	$13.90

UNIVERSAL HDMI CABLE FOR SMARTPHONES

Connect a large display to your smartphone quickly and easily. This ingenious device provides a USB plug for power (optional depending on your devices), HDMI plug to connect to the TV, and a USB socket. Simply connect your smartphone with its USB charge/sync cable to the USB socket, and you're ready to go! Compatible with modern iOS and Android devices, with no app installation required. Supports resolutions up to 1080p.

- Compatible with iOS™ 8, Android 4.5, or higher

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7650	$56.90	$50.90	$44.90

Mitchell Ridley likes to

think. possible.

"Batteries lasting longer, charging faster, cheaper and having more cycle life will revolutionise how we power things that use fossil fuels. I'll retire earlier because caravans will supply auxiliary power to vehicles while travelling. Drones will perform autonomous tasks briefly landing to recharge. My kids, imagine their toys! How exciting!"

HDMI Adaptors

DVI-D TO HDMI CABLE

- HDMI to DVI-D connector

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ7407	$22.90	$20.90	$17.90
3.0m	WQ7406	$33.90	$29.90	$26.90

DISPLAY PORT PLUG TO HDMI SOCKET

Connects from a display port plug to a HDMI socket for connecting to a high definition TV or monitor.

Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WQ7422	$33.90	$29.90	$26.90

HDMI PLUG TO SOCKET SWIVEL ADAPTOR

Connect HDMI cables where space is an issue such as wall mounted TV's with this adaptor which swivels up to 180o.

- Gold plated connectors

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3647	$17.90	$16.10	$14.30

MICRO HDMI PLUG TO HDMI SOCKET ADAPTOR

Connects your Smartphone, camera or other device with micro HDMI socket to any TV with a HDMI connection.

- Colour: Black
- Gold plated connectors

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3649	$12.90	$11.30	$10.30

HDMI ADAPTORS

	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI Socket to Socket	PA3640	$20.90	$18.80	$16.70
HDMI Plug to DVI-D	PA3642	$18.90	$16.90	$14.90
HDMI Socket to DVI-D Plug Adaptor	PA3644	$18.90	$16.90	$14.90
Mini HDMI Plug to HDMI Socket Adaptor	PA3645	$11.90	$10.70	$9.50

Jacqueline Bartlett likes to

think. possible.

"Smart watch - I think it will become our main source of communication, fitness & health tracker. It will be more user friendly, have lasers and progress to take over the smart phone and your wallet. Projecting images and better sound quality, with larger storage built in."

find out more in store

Our staff offer friendly and helpful service. We're here to help.

For next day delivery, or Click and Collect, see page 5

AV senders

AV senders transmit video & 2 channel audio across short distances in, say, an office or home. They have been around for over 10 years now and have more recently incorporated HDMI for higher resolution video. You may be wondering why these still exist with the dominance of Wi-Fi, Bluetooth®, etc. They still have their place as they work fantastically well. The wired units utilise network cable, whilst the wireless units use digital RF encoding on the 2.4 or 5-5.8GHz bands. Both are ideal if you want to send an AV, Xbox®, PS3 etc. signal from one room to another room or several others. Digital technology renders them quite immune to interference - both to you and from you. Most models also feature infrared repeaters so you can change channel and operate other IR controlled gear from another room.

AV Senders - Wireless

5.8GHZ WIRELESS AV SENDER/RECEIVER WITH WIDEBAND IR EXTENDER

1 YEAR WARRANTY

Allows you to send your Pay TV reception (or any other video source) to any part of the house. Includes a wideband IR remote control extender so it will cope with even the fussiest remote controls. 5.8GHz transmission frequency ensures freedom from wireless network interference. Includes power supplies, AV cables 7 extension IR LED.

- Video: Composite or S-video
- Audio: Stereo RCA
- Range: 60m (line of sight)

SPECIFICATIONS	AR1913
Input Voltage	12VDC/250ma (Mains adaptor included)
Input/Output	Composite/S-Video
Resolution	480i
Range	Up to 60m
Dimensions	110(W) x 105(D) x 38(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Transmitter/Receiver	AR1913	$119.00	$106.90	$94.90
Spare Receiver	AR1916	$79.90	$71.90	$63.90

5.8GHZ WIRELESS HDMI 1080P SENDER/RECEIVER

NEW

1 YEAR WARRANTY

Includes a transmitter and receiver unit to transmit crystal clear 1080p signals up to 30m wirelessly. Amazing bandwidth of up to 10.2Gbps, but will cater for lower resolutions equally well and features HDMI Pass-Through. For added convenience, an infrared extender is fully integrated, so you can use your remote control on the receiver end for full control of your devices as well! Full HD means it's ideal for Pay TV, home theatre systems, meeting rooms, and much more. It's also convenient to connect a computer to a display where they may not be in close proximity. Includes infrared emitter, infrared receiver, and two mains power adaptors.

- 1080p Full HD

SPECIFICATIONS	AR1917
Wireless Frequency	5.8GHz
Wireless Range	Up to 30m
HDMI	1.3a
HDCP	1.4
Resolution	Up to 1080p @ 50/60Hz
Audio	L/R Stereo PCM
Maximum Transfer Rate	10.2Gbps
Latency	≤ 200ms
Infrared Frequency	20-60KHz
Dimensions	121(D) x 95(W) x 20(H)mm (Each)

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless 5.8GHz 1080p HDMI	AR1917	$319.00	$279.00	$249.00

5.8GHZ WIRELESS HDMI 1080P TRAVEL SENDER/RECEIVER

NEW

This portable HDMI extender includes a mini transmitter and receiver unit to transmit crystal clear 1080p signals up to 15m wirelessly. The receiver and transmitter are powered by USB so they can operate where mains power is not available, ideal for temporary setups such as conference or meeting room presentations, or an outdoor entertainment area. The system supports bandwidth of up to 10.2Gbps, but will cater for lower resolutions equally well. Supplied with two micro USB and two HDMI cables.

RECEIVER

SENDER

SPECIFICATIONS	AR1901
HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP 1.2
HDMI Resolution	Up to 1080p @ 60Hz
Audio Format	PCM
Maximum Transfer Rate	10.2Gbps
Wireless Frequency	5.8GHz
Range	Up to 15m
Dimensions	90(L) x 40(W) x 15(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR1901	$259.00	$229.00	$199.00

2.4GHZ WIRELESS HDMI 1080P SENDER/RECEIVER

NEW

1 YEAR WARRANTY

Full HD 1080p HDMI support makes this AV sender plug and play with most digital pay TV or home theatre systems, providing an amazing clarity at up to 15m line of sight. With the inclusion of an infrared extender, you can use your remote to take control of the source devices. Full 1080p HD video is retained, for the ultimate in convenient video transmission. Includes infrared emitter, infrared receiver and two mains power adaptors.

Note: Transmission distance varies depending upon the obstacles in between the transmitter and receiver such as walls or solid objects.

SPECIFICATIONS	AR1905
Wireless Frequency:	2.4GHz
Wireless Range:	Up to 15m
HDMI:	1.3a
HDCP:	1.4
Resolution:	Up to 1080p @ 50/60Hz
Dimensions:	88(W) x 75(D) x 20(H)mm (Each)

	Cat.	Qty 1+
	AR1905	$229.00

AV Senders - Wireless CONTINUED

5.8GHZ WIRELESS HDMI 1080P PORTABLE SENDER/RECEIVER

1 YEAR WARRANTY

This portable HDMI AV sender is perfect for travelling, presentations, lecturing, or even home streaming from your laptop or PC. Unlike most units for home and office, the transmitter for this unit is barely larger than a USB flash drive. It plugs straight into the HDMI socket on your laptop or PC, using USB power. Wireless transmission is on the ultra-reliable 5.8GHz band for minimal interference and high quality transmission. The receiver is compact and can be placed up to 20m away! Infrared passback is included so you can control infrared devices at the source too. A powerful package that's fully plug and play, so there's no fuss setup every time. HDMI 1.3a and HDCP 1.4 compliant for the ultimate in HDMI compatibility. Includes infrared emitter, infrared receiver, USB transmitter power cable and mains power adaptor.

- Audio: L/R Stereo Audio
- Maximum Transfer Rate: 10.2Gbps
- Latency: ≤ 200ms
- Infrared Frequency: 20-60KHz

Note: Transmission distance varies depending upon the obstacles in between the transmitter and receiver such as walls or solid objects.

SPECIFICATIONS	AR1909
Input Voltage	5VDC (Mains Adaptors Included)
Input/Output	HDMI V1.3
Resolution	Up to 1080p
Range	Up to 20m
Dimensions	132(W) x 95(D) x 20(H)mm

	Cat.	Qty 1+
Mini 5GHz 1080p HDMI	AR1909	$229.00

AV Senders - Wired

TOSLINK & COAX AUDIO CAT5E/6 EXTENDER WITH INFRARED

NEW

Perfect for running ultra-long digital audio connections up to 200m with no loss in quality! TOSLINK and digital coax connections are supported, however you can optionally use it to convert between the two also (i.e., TOSLINK input / coax output) saving you from purchasing another unit to convert also. Also includes infrared repeater so you can control your source device from where you're extending the audio to. Multi-channel audio support.

- Up to 200m transmission distance
- Power over Cat5e/Cat6 cable (PoC)
- Simultaneous TOSLINK (optical) & coax output
- Infrared remote control extender

SPECIFICATIONS	AC1733
Transmission Distance	Up to 200m (Cat5e/Cat6
Inputs	TOSLINK (Optical), Coax (RCA)
Outputs	TOSLINK (Optical), Coax (RCA)
Frequency	192KHz
Audio	Multi Channel LPCM 2/5.1/7.1CH, DTS 5.1, DTS-HD Master Audio, DTS:X
Infrared Frequency	38/56KHz (Transmitter) 30-60KHz (Receiver)
Power	12VDC, 500m
Power Consumption	100mA (Max)
Dimensions	88(L) x 65(W) x 29(H)mm (Each)

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1733	$94.90	$84.90	$75.90

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POWERED CAT5 VGA BALUNS WITH AUDIO

Able to transmit VGA and audio signals across a standard UTP or STP CAT5 cable for distances up to 300 metres. Adjust the brightness and skew of the image with the peak and gain options. Use for classrooms, lecture halls, auditoriums, retail kiosks, video info displays, tradeshows, etc.

- Ideal for VGA monitors or LCD projection screens
- Supports up to 1920 x 1200 pixels
- Supplied as a sender and receiver pair with plug packs included

1 YEAR WARRANTY

SPECIFICATIONS	AC1671
Input Voltage	5VDC (Mains adaptor incuded)
Input/Output	VGA/CAT5 (Send), CAT5/VGA (Rec)
Resolution	Up to 1920 x 1200
Range	Up to 300m
Dimensions	100(L) x 65(W) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1671	$159.00	$143.90	$127.90

AV Extenders

50M 1080P MINI HDMI CAT5E/6 EXTENDER

NEW

These mini extenders plug straight into the HDMI sockets on the source and receiver, allowing you to run your full 1080p HDMI signal up to 50m! Cat6 cable is recommended for longer distance, however will work with Cat5e cables over shorter lengths too. The receiver uses Power-Over-Cable (PoC) technology so it receives its power from the transmitter using the Cat5e/Cat6 ethernet cable. Includes USB Micro B power cable and USB mains power adaptor.

- 50m(Cat6), 40m (Cat5e) Transmission Range
- Power Over Cat5e/Cat6 Cable (PoC)
- HDCP & 3D Support
- Adjustable Equaliser

SPECIFICATIONS	AC1726
HDMI:	1.3a
HDCP:	1.4
Resolution:	Up to 1080p (1920 x 1080) @ 50/60Hz
Video Bandwidth:	4.95Gbps
Audio:	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+
Colour Depth:	8-bit
Power:	5VDC, 1A (Transmitter)
Dimensions:	62(L) x 25(W) x 15(H)mm (Each)

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1726	$79.90	$71.90	$63.90

50M 1080P HDMI CAT5E/CAT6 EXTENDER WITH INFRARED

1 YEAR WARRANTY

Full audio support is included, with up to 7.1 surround sound. What's more is the infrared extension too, so you can take your remote control with you and still control the remote device. The transmitter module even includes HDMI passthrough, so you don't lose the original connection. Therefore this device acts like a splitter as well! The receiver also receives its power from the transmitter via the Cat6 cable, for even less hassle! Plug and play, mains power supply included.

- Also extends IR remote control
- Only transmitter requires mains power

SPECIFICATIONS	AC1783
Range	Up to 50M (Cat6)
HDMI Standard	1.4b
Video Supported	up to 1080p@60Hz
Audio Supported	LPCM 7.1CH, Dolby TrueHD, DTS-HD Master Audio
Power	5VDC (Mains adaptor included)
Dimensions	80(D) x 69(W) x 18(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI CAT 6 Extender 50m	AC1783	$149.00	$133.90	$118.90

For next day delivery, or Click and Collect, see page 5

AV Extenders CONTINUED

100M 1080P HDMI CAT5E/CAT6 EXTENDER WITH INFRARED

1 YEAR WARRANTY

This device makes use of the TCP/IP protocol used for computer networking, so you get the added bonus of being able to split a HDMI signal to multiple displays through a common home router or switch. (requires extra receivers available separately).

- Supports deep colour up to 12 bits, IR re-transmitting so remote controls can be used

p.300 for suitable Cat5/Cat6 leads.

SPECIFICATIONS	AC1734
Range	Up to 20m (Cat5e), 100m (Cat6)
HDMI Standard	1.3
Video Supported	up to 1080p
Audio Supported	LPCM 7.1CH, Dolby TrueHD, DTS-HD Master Audio
Power	5VDC (Mains adaptor included)
Dimensions	100(L) x 65(W) x 25(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI Extender	AC1734	$229.00	$209.00	$182.90
Spare TCP/IP-HDMI Receiver	AC1735	$119.00	$106.90	$94.90

150M 1080P HDMI CAT5E/6 EXTENDER WITH INFRARED

Allows 1080p HDMI, bidirectional infrared remote control signals, RS-232 and DC power all to be sent over one Cat-6 straight through (network) cable to a distance of up to 150 metres - the longest range of all models!

- Power over cable
- Bi-directional infrared control

SPECIFICATIONS	AC1746
Range	Up to 150m (Cat6)
HDMI Standard	1.4
Video Supported	up to 1080p@60Hz
Audio Supported	LPCM to 7.1CH, Dolby & DTS5.1, Dolby TrueHD, DTS-HD, Dolby Atmos, DTS:X
Power	24VDC (Mains adaptor included)
Dimensions	115(W) x 65(D) x 17(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1746	$259.00	$229.00	$199.00

HDMI Repeaters

HDMI 4K REPEATER

NEW

1 YEAR WARRANTY

This active repeater unit will amplify your HDMI signal and extend the distance up to 40m! It supports resolutions up to 4K at 60Hz, has CEC pass-through, and complies with HDMI 2.0b and HDCP 2.2. Features High-Dynamic-Range (HDR) for a wider range of lifelike colours and brightness. Powered by HDMI and includes a USB power cable if additional stability is required for longer cable lengths.

SPECIFICATIONS	AC1717
Cable Distance	25m (4K x 2K @ 60Hz) 30m (4K x 2K @ 30Hz) 40m (1080p @ 60Hz)
HDMI	2.0b
HDCP	2.2
HDR	10
Resolution	Up to 4K (3840 x 2160) @ 60/30Hz
Video Bandwidth	18Gbps
Audio	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Power	5V, 500mA (Micro B USB)
Power Consumption	200mA (Max)
Dimensions	56(L) x 26(W) x 13(D)mm

4K UHD

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1717	$39.90	$35.90	$31.90

HDMI 18GBPS REPEATER WITH 4K UP AND DOWN SCALING

4K UHD

1 YEAR WARRANTY

Provides a signal boost for long cable runs, and will also scale up / down to and from 1080p and 4K, or simply pass through. Supports the latest HDCP and HDMI specifications. Mains power supply included.

- Supports up to 4K2K @ 60Hz, and HDMI digital audio formats

SPECIFICATIONS	AC1728
HDMI Compliance	HDMI 2.0bHDCP Compliance: HDCP 2.2 and HDCP 1.4
Video Resolutions	up to 4K2K@50/60Hz(YUV4:4:4),4K2K@30Hz,1080P@120Hz, and 1080P 3D@60Hz
Color Space	10 or 12-bit - RGB, YCbCr 4:4:4, YCbCr 4:2:2
HDMI Audio Formats	(Pass-through) LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio
USB	1 x Mini-USB (firmware upgrade only)
Dimensions	81(W) x 55(D) x 16(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI 18Gbps Repeater	AC1728	$169.00	$151.90	$134.90

HDMI Splitters

2 WAY HDMI SPLITTER WITH 4K SUPPORT

4K UHD

- 3DHDMI 1.4a support
- 3D video support
- ESD protection
- HDCP 1.4 compliant

SPECIFICATIONS	AC1710
Input	1 x HDMI
Output	2 x HDMI
HDMI Standard	1.4a
Video Supported	up to 4K@30Hz, 3D
Audio Supported	PCM to 7.1CH, Dolby & DTS5.1, Dolby TrueHD, DTS-HD
Power	5VDC (Mains adaptor included)
Dimensions	70(L) x 60(W x 20(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Output	AC1710	$56.90	$50.90	$44.90

4 WAY HDMI SPLITTER WITH 4K SUPPORT

4K UHD

- 3D HDMI 1.4a support
- 3D video support
- HDCP 1.4 compliant

SPECIFICATIONS	AC1712
Input	1 x HDMI
Output	4 x HDMI
HDMI Standard	1.4a
Video Supported	up to 4K@30Hz, 3D
Audio Supported	PCM to 7.1CH, Dolby & DTS5.1, Dolby TrueHD, DTS-HD
Power	5VDC (Mains adaptor included)
Dimensions	145(L) x 70(W) x 23(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Output	AC1712	$119.00	$106.90	$94.90

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Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

HDMI Switchers

3 WAY HDMI 1.3 SWITCHER

This is a simple switcher to connect 3-inputs (such as a Blu-ray player, media centre, etc.) into one display (e.g. a TV). No external power required, just connect and go! HDMI 1.3 compatible.

SPECIFICATIONS	AC1711
Input	3 x HDMI
Output	1 x HDMI
HDMI Standard	1.3
Video Supported	up to 1080p
Audio Supported	Dolby TrueHD, DTS-HD Master Audio
Power	By HDMI
Dimensions	51(W) x 51(D) x 15(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Input	AC1711	$17.90	$15.90	$13.90

2 WAY HDMI 1.4 BI-DIRECTION SWITCHER

This fantastic device solves all sorts of HDMI interconnection problems. Use it with one input and two outputs, or two inputs and one output. Plug your cables in, and away you go! Supports up to HDMI 1.4. Includes power supply.

SPECIFICATIONS	AC1713
Input	2 x HDMI (Can switch to Output)
Output	1 x HDMI (Can switch to Input)
HDMI Standard	1.4
Video Supported	up to 4K@30Hz, 3D
Audio Supported	LPCM 7.1CH, Dolby TrueHD, DTS-HD Master Audio
Power	5VDC USB
Dimensions	66(D) x 55(W) x 20(H)mm

4K UHD

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Input / 1 Output	AC1713	$56.90	$50.90	$44.90

3 WAY HDMI 1.4 SWITCHER WITH REMOTE CONTROL

Compact HDMI switchers for small to medium scale home theatre or gaming console setups. Using the one-touch button or the supplied remote control, you can switch your TV's display between a Blu-ray player, gaming console or other HDMI source with ease. Supports HDCP repeater functions, HDMI 1.4 at 4K, 2K resolutions, & also 3D video. Powered directly from HDMI so no external power supply is needed. The IR receiver is on a 1.5m cable so you put the switcher at the back of the TV cabinet if required.

- Supported formats: PCM2, 5.1, 7.1CH, Dolby 5.1, DTS5.1, Dolby TrueHD, DTS-HD

4K UHD

SPECIFICATIONS	AC1705
Input	3 x HDMI
Output	1 x HDMI
HDMI Standard	1.4
Video Supported	up to 4K@30Hz, 3D
Audio Supported	PCM to 7.1CH, Dolby & DTS5.1, Dolby TrueHD, DTS-HD
Power	By HDMI
Dimensions	87(L) x 59(W) x 19(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Input	AC1705	$45.90	$40.90	$35.90

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4 WAY HDMI 2.0 SWITCHER WITH REMOTE CONTROL

Connecting all your new AV equipment together can be a chore. But this switcher will accept up to 4 HDMI inputs, and feed them to your flat-screen, projector, or any other HDMI display. Supporting 4K resolutions with HDMI 2.0, as well as transport of Dolby® / DTS® audio. Select inputs using the included remote control or with the pushbutton on the unit. Plug and play, and easy to use.

HDMI 2.0

SPECIFICATIONS	AC1745
Input	4 x HDMI
Output	1 x HDMI
HDMI Standard	2.0
Video Supported	Up to 4K@60Hz, 3D
Audio Supported	LPCM 7.1CH, Dolby TrueHD, DTS-HD Master Audio
Power	5VDC (Mains adaptor included)
Dimensions	128(W) x 75(D) x 20(H)mm

4K UHD

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input	AC1745	$79.90	$71.90	$63.90

HDMI Switcher & Splitter

4 WAY HDMI 1.4 SWITCHER WITH AUDIO SPLITTER

A high performance HDMI switcher which allows fast changing between up to 4 HDMI sources such as an Xbox, media player, DVD player etc. Ideal for the home, retail service-scape, lecture halls or other venues where broad HDMI source compatibility is required. Features a TOSLINK and 3.5mm stereo audio socket that will output audio to an array of sound system setups.

1 YEAR WARRANTY

4K UHD

SPECIFICATIONS	AC1707
Input	4 x HDMI
Output	1 x HDMI
HDMI Standard	1.4a
Video Supported	up to 4K@30Hz, 3D
Audio Supported	PCM to 7.1CH, Dolby & DTS5.1, Dolby TrueHD, DTS-HD
Power	5VDC (Mains adaptor included)
Dimensions	146(L) x 70(W) x 24(H)

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input	AC1707	$149.00	$133.90	$118.90

John Lenard likes to

think. possible.

"Home Automation. I think this is the way of the future. Everything we do will be automated through gestures and voice progressing eventually to thought gestures. Old schoool mechanics of everyday items that we use will slowly die out."

For next day delivery, or Click and Collect, see page 5

HDMI Converters

HDMI TO AV COMPOSITE CONVERTER

Convert your digital HDMI signal to a standard composite audio/video signal. This is very handy for adapting a DVD player or gaming console to an older TV, since many of these new devices no longer offer analogue outputs. Supports PAL and NTSC standards. USB cable and power supply included to provide power to the unit.

1 YEAR WARRANTY

SPECIFICATIONS	AC1773
Input Video Signal	HDMI
Output Video Signal	Composite RCA
Display Adjust	No
HDMI Input Resolution	640 x 480, 800 x 600, 1024 x 768, 1280 x 720, 1280 x 1024, 1360 x 768, 1600 x 1200, 1920 x 1080, 480i/p, 576i/p, 720p, 1080i/p
HDMI	1.3
HDCP Support	Yes (on input side)
Supported TV Standard	PAL/NTSC M.(NTSC-J)
Power	USB power adaptor and lead included
Dimensions	67(W) x 21(H) x 57(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1773	$79.90	$71.90	$63.90

HDMI TO AV COMPOSITE CONVERTER WITH DISPLAY ADJUST

The converter also supports either NTSC or PAL systems. This converter provides high quality output image, and features an easy to use zoom function which allows you to adjust your display size to suit different configurations. Supports a wide range of resolutions ideal for using newer devices with existing legacy displays.

- Screen size adjustment button

SPECIFICATIONS	AC1720
Input Video Signal	HDMI
Output Video Signal	Composite RCA (CBVS/Composite video & 2 RCA audio)
Display Adjust	Yes
HDMI Input Resolution	800 x 600, 1024 x 768x 1280 x 720, 1280 x 1024, 1920 x 1080
HDMI	1.3
HDCP Support	Yes (on input side)
Supported TV Standard	PAL/NTSC
Power	5V power supply included
Dimensions	115(W) x 100(S) x 25(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1720	$159.00	$142.90	$126.90

COMPOSITE AV TO HDMI CONVERTER

A universal converter for analogue composite input to HDMI 1080p (60Hz). The analogue to digital conversion module will deliver a sharp and realistic image thanks to its processing technology. Power is delivered to the unit through the mini USB port. Enable old devices such as Sega master systems, DVRs, or VHS players to playback video and audio on more modern HDMI equipped displays.

- Supports HDMI 1080p 60Hz / 720p 60Hz output
- Requires 5VDC power through the mini USB port (power supply included)

1 YEAR WARRANTY

SPECIFICATIONS	AC1722
Input	Composite video and L/R Analogue audio (Yellow/White/Red RCA)
Composite Input	PAL/NTSC3.58/NTSC4.43/SECAM/PAL-M/PAL-N
Output	HDMI
Dimensions	60(W) x 54(L) x 20(H)mm
Weight	80g

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1722	$109.00	$98.90	$87.90

COMPOSITE AUDIO VIDEO TO 4K HDMI UPSCALER CONVERTER

The AV to HDMI 4K Upscaler Converter is a universal converter for analogue composite input to HDMI 4Kx2K@60Hz output. The analogue to digital conversion in this module employs 10 bits maximal 297MSPS sampling, black/white level expansion, colour transition improvement, dynamic range expansion, blue stretch, auto-detect and auto-convert the composite signal to HDMI output. Making video come alive, delivering the sharpest, most realistic HD visuals available. Supplied with a 5VDC, 1A mains power adaptor.

4K UHD

- No installation driver required
- Flexible and portable
- Provide advanced signal processing with great precision, colours & resolution

1 YEAR WARRANTY

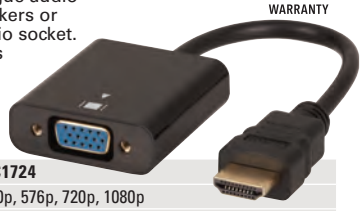
SPECIFICATIONS	AC1776
Input Ports	1 x RCA (Yellow, White, Red), 1 x S-Video, 1 x Mini USB
Output	1 x HDMI
CVBS/S-VIDEO Input	PAL,NTSC3.58,NTSC4.43,SECAM,PAL/M,PAL/N standard TV formats
HDMI Output Resolution	4Kx2K@60Hz,4Kx2K@30Hz, 1080p@60Hz,720p@60Hz
Dimensions	93(D) x 84(W) x 28(H)mm, 300g

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1776	$199.00	$179.00	$159.00

HDMI TO VGA & STEREO AUDIO CONVERTER

Convert a HDMI source such as a Blu-ray player to a VGA display. This unit will also convert the audio stream from HDMI to analogue audio which can be output to some speakers or headphones using the 3.5mm audio socket. No power supply is required as it's powered by the HDMI signal.

1 YEAR WARRANTY



SPECIFICATIONS	AC1724
HDMI Input Formats	480p, 576p, 720p, 1080p
VGA Video Output Format	480p (720 x 480), 576p (720 x 576), 720p (1280 x 720), 1080p (1920 x 1080)
Frequency	50/60Hz
Cable Length	175mm
Dimensions	55(L) x 41 (W) x 17(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1724	$28.90	$25.90	$22.90

COMPACT HDMI TO VGA & STEREO AUDIO CONVERTER

This is a tiny and handy unit, barely bigger than a USB flash drive. It will convert your HDMI output to VGA and stereo audio outputs. A common problem is an older projector or screen in a board room with VGA, and a newer laptop with only a HDMI output. This adaptor solves it quickly and easily, supporting resolutions up to 1080p Full HD! Plug and play operation, no drivers required.

1 YEAR WARRANTY

- No power required
- Plug and play
- Supports up to 1080p HD
- HDMI V1.4
- Dimensions: 50(D) x 30(W) x 15(H)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1784	$28.90	$25.90	$22.90

Harrison Asmar likes to

think. possible.

"I think the Arduino hobbyist board will evolve in the next 10 years to include new features including simultaneous processing of code, more compatibility and scalability to be used in production devices, and more modules for advanced IOT devices."

HDMI Converters CONTINUED

VGA TO HDMI CONVERTER & UPSCALER WITH STEREO AUDIO

This unit is ideal for older laptops and other devices with a VGA output, to display on a HDMI device. It also allows conversion of your analogue audio source into the HDMI digital stream. It's effectively plug and play. Power is provided by the 700mm mini USB cable supplied.

- HDMI upscaling up to 1080p
- Analogue audio encoding
- HD HDMI output

SPECIFICATIONS	AC1718
Power	5VDC, 500mA
Input	VGA, RCA (AUDIO)
Output	HDMI
DTV/HDTV	480i/576i/480p/576p/720p/1080i/1080p
Video Amplifier Bandwidth	1.65Gbps/165MHz
Vertical Frequency Range	50/60Hz
Power Consumption(MAX)	5W
Weight	43g
Dimensions	60(L) x 54(W) x 20(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1718	$99.90	$89.90	$79.90

2 X HDMI TO VGA/COMPONENT & ANALOGUE/DIGITAL AUDIO CONVERTER

No need to upgrade to expensive LCDs or plasmas just yet. This converter can accept 2 HDMI sources, and features a switch to select which device you want to output. Connect HDMI signals from DVD, Blu-ray or set top boxes and output to VGA, component video, with digital (TOSLINK) or analogue (3.5mm stereo) audio outputs for connection to almost any TV or PC monitor. Supports resolutions up to 1080p; output resolution is determined by input.

- Supports NTSC and PAL systems
- HDCP Support
- HDMI 1.3 compliant

SPECIFICATIONS	AC1721
Input	2 x HDMI
Video Output	1 x YPbPr / 1 x VGA
Audio Output	1 x TOSLINK / 1 x 3.5mm Stereo
Supported Resolutions	HDMI Input: up to 1080p, VGA Output: up to 1080p @ 60Hz, YPbPr Output: up to 1080p @50Hz / 60Hz
Power	5VDC Power Supply included
Dimensions	34(H) x 128(W) x 94(D)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 4+	Qty 10+
AC1721	$169.00	$151.90	$134.90

Julio Najera likes to

think. possible.

"Chargers, Portable Turbines: for recharge electronic devises, in 5 to 10 years, it will be afordable to everybody and coming in sizes easy to keep in the pocket, with option of wireless charging."

$500 Gift Card Winner

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HDMI Audio Extractors

HDMI AUDIO EXTRACTOR

This unit provides a powerful utility - grabbing the audio from a HDMI cable. Why would you want to do this? Quality and simplicity. Since HDMI has taken over as the go-to standard, less and less devices provide digital audio outputs. This is especially true for a cheap Blu-ray player, laptop computer, or other compact device. Using this device you can extract high quality audio in digital optical, digital coaxial, or analogue 3.5mm stereo audio. Suitable for use with digital A/V signals up to 4k @ 60Hz, it's going to solve many connectivity issues for external speakers. What's more is it provides HDMI back out, so you can still feed the video to your TV or other display! Compatible with HDMI 2.0, HDCP 2.2 compliant.

Features:

- Extracts audio stream from HDMI
- Suitable up to 4k2k @ 60Hz
- Supports: DTS HD, Dolby TrueHD (via HDMI)

SPECIFICATIONS	AC1739
Input	1 x HDMI
Video Output	1 x HDMI
Audio Outputs	1 x Optical, 1 x Coaxial, 1 x 3.5mm Stereo
Video Format	4k2k @ 60Hz
Power	5VDC @ 1A
Weight	24g
Dimensions	175(W) x 135(D) x 65(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 4+
AC1739	$79.90	$71.90

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Remote Controls

TOTAL CONTROL 1 TV BIG BUTTON REMOTE

Finally, an old school TV remote control with only the buttons that you really need, and they are big visible buttons too! There's no need to navigate through a touch screen or download codes via a computer as it is preloaded with codes for all the major brand TVs - and a whole heap of the more obscure brands as well! Easy setup instructions are included and it can operate up to 2 different devices.

- Ideal for the elderly
- Requires 2 x AAA batteries
- Approx 175mm long

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1962	$33.90	$29.90	$26.90

p.449 - universal air conditioner remote

TOTAL CONTROL 1 TV REMOTE

A single remote for a single TV. If you find yourself confused by all the multi-function remotes on the market, then this one is for you. Nothing could be simpler!

- Requires 2 x AAA batteries
- Approx 178mm long

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Device	AR1955	$36.90	$33.20	$29.50

TOTAL CONTROL 8 DEVICE REMOTE

Control up to 8 different devices including televisions, satellite receivers, set top boxes, DVD players VCRs, PVRs and more with this easy to use pre-programmed remote. It is compatible with most popular brands and features just about all the buttons you will ever need.

- Requires 2 x AAA batteries
- Approx 178mm long

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
8 Devices	AR1954	$48.90	$44.00	$39.10

replacement remotes:

There's something about the design consideration given to original remote controls that isn't always replicated with universal units. With these replacement units, they closely replicate all the original functionality and are virtually drop-in replacements. No setup required, just insert your batteries and you're ready to go. Note: Some features may not be available on your particular TV, such as record / playback.

1 YEAR WARRANTY

- Requires 2 x AAA batteries

LG® TV'S CAT. AR1958
SAMSUNG® TV'S CAT. AR1959
SONY TV'S CAT. AR1960
PANASONIC TV'S CAT. AR1961
HISENSE TV'S CAT. AR1964

	Cat.	Qty 1+	Qty 4+	Qty 10+
LG®	AR1958	$74.90	$66.90	$59.90
Samsung®	AR1959	$74.90	$66.90	$59.90
	Cat.	Qty 1+	Qty 3+	Qty 10+
Sony	AR1960	$74.90	$66.90	$59.90
Panasonic	AR1961	$74.90	$66.90	$59.90
Hisense	AR1964	$69.90	$62.90	$55.90

LG AR1958 | SAMSUNG AR1959 | SONY AR1960 | PANASONIC AR1961 | HISENSE AR1964

Phone support is available from the vendor if you are unable to find the right code to suit your device. The phone number is printed on the packaging.

REMOTE CONTROL FOR RECORDABLE DIGITAL PAY TV

NEW

This pre-programmed universal remote is ready to control your Foxtel® iQ1, iQ2, iQ3 and iQ4 box. Control both your Pay TV box and TV at the same time with the one remote

Includes buttons to control the recording, live pause and playback features of the latest Pay TV services. Also suitable with Fetch TV, Apple® TV and Telstra TV media boxes.

- Requires 2 x AA Batteries
- Approx 190mm long

1 YEAR WARRANTY

Not available in New Zealand.

Not available in New Zealand

REMOTE CONTROL FOR RECORDABLE DIGITAL PAY TV

Replace your lost or broken pay TV remote control at a fraction of the cost of the genuine brand names, or just keep a spare. Including buttons to control the special record, live pause and playback features of the latest recordable digital Pay TV services, you will have complete control over your Recordable Pay TV subscription.

- Compatible with recordable pay TV set top boxes
- Operates all TV essential functions
- Includes controls for record, live pause & playback features
- Requires 2 x AA Batteries
- Approx 210mm long

1 YEAR WARRANTY

Not available in New Zealand.

Not available in New Zealand

REMOTE CONTROL FOR SKY TV NZ

The dog chewed on it, the baby slobbered on it, or it just stopped working. Whatever the reason your Sky satellite remote stopped working, this one is a direct replacement. Suitable for use with Sky and MySky HDi boxes.

- Controls TV and Sky
- Compatible with Sky and MYSKY HDi
- Infrared Learning
- Requires 2 x AA Batteries
- Approx 190mm long

1 YEAR WARRANTY

Not available in Australia.

	Cat.	Qty 1+
New Zealand	AR1957	$29.90

Remote Controls CONTINUED

UNIVERSAL REMOTE CONTROL FOR AIR CONDITIONERS WITH BACKLIT LCD

1 YEAR WARRANTY

A feature rich replacement for a lost or broken air-con remote. The unit has an easy to read blue backlit LCD for night control and all the buttons you'll need to control most functions of your air conditioner. Standard temperature controls, swing, vane, fan, timer, sleep mode and more are all featured on the control. This unit is compatible with most air conditioners capable of identifying with up to 2000 models. It also conveniently shows the time.

- Requires 2 x AAA batteries
- Includes mountable cradle
- Dimensions: 165(L) x 55(W) x 25(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1731	$34.90	$31.90	$27.90

WIRELESS AIR MOUSE REMOTE WITH VOICE ASSIST

NEW

This wireless remote is an all-in-one mouse, keyboard, microphone, and IR remote control. It is plug-and-play and designed to work with your Smart TV, Projector, Android TV Box, Home Theatre PC, Mini PC, or All-in-one PC. One side of the remote has the controls you see on most remotes such as menu navigation, volume, and channel controls. The other side has a full QWERTY keyboard, which makes it much easier to type compared to using the cumbersome method on a conventional remote. A built-in gyroscope and 3G sensor control a mouse pointer on your screen, an Infrared LED in the front can learn commands so you can retire your other remote controls, and an integrated microphone is compatible with YouTube, Voice Search, and Skype. The remote is rechargeable by USB and is supplied with a mini 2.4GHz receiver dongle with up to 10m range.

- Full QWERTY Keyboard
- Low Operation Current - 30mA
- Low Standby Current - 30µA

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1976	$69.90	$62.90	$55.90

WI-FI UNIVERSAL SMART REMOTE

Wi-Fi

Many electrical appliances such as TVs, air conditioners, heaters, and so on are still controlled using an infrared remote control. As more and more people are using their smart device to control pretty much everything, the RM Mini 3 allows you to control these infrared signals from your spartphone or tablet.

p.436 alexa-home smart display

The RM Mini 3 connects via Wi-Fi and allows you to control infrared appliances with Android or iOS® smartphones or tablets. You can remotely control multiple appliances from your smartphone anywhere in the world. With the recent additions of Google assistant and Alexa voice controls now you can control your appliances via voice commands with help from the RM Mini 3.

- Supported OS: iOS 7.0/Android 4.0 and above
- Wi-Fi Frequency: 2.4GHz 802.11b/g/n
- Power Input: 5V DC/500mA
- Max. Voltage: AC 240V
- Max. Current: 2A
- Standard Power: ≤0.85W
- Infrared Direction: 360° (Horizontally)

Download on the App Store

ANDROID APP ON Google play

amazon alexa

works with the Google Assistant

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1974	$45.90	$40.90	$35.90

Infrared (IR) Extenders

USB IR EXTENDER KIT

Easy to set up plug and play USB powered IR extender kit allows you to control AV devices behind closed doors or cabinets. Simply plug the USB into an available port of one of your AV devices and this feeds the power required for the attached IR receiver and transmitter. The multiple sensors inside the transmitter enable it to work effectively from a wide range of positions in front of your source product. This kit supports wide reception and the receiver range is up to 10 metres. Also works with multiple remote controls.

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 4+
AR1834	$29.90	$26.90	$23.90

2 CHANNEL IR EXTENDER KIT

Use it to extend the range of your IR remote control to another room, or run all your remote controlled devices from a single sensor. This IR Emitter Kit acts like a hub, enabling you to interface all your IR remote controlled devices together and control them from a single sensor point. Up to six IR emitters to be connected to a single point and you can add extra emitters as you need.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Input IR Extender	AR1812	$95.90	$86.50	$76.90
Spare Emitters - Single	AR1811	$9.90	$8.70	$7.70
Spare Emitters - Dual	AR1813	$12.90	$11.30	$10.30

4 CHANNEL IR EXTENDER KIT

Some aesthetically pleasing home theatre setups may not be 100% functional. AV source devices may be hidden in a cabinet to create a clean minimalistic setup. In these scenarios, the signal from your remote control may be partially or completely blocked. To overcome this you can use this IR repeater extender kit to give you control of your devices. Plug the IR receiver in (to receive signals from your remote), then connect up to 4 devices to the emitter outlets. The 3M adhesive backing on the IR receiver the emitters can be mounted in an unobtrusive location. The kit is 4 channel so will accept up to 4 source devices.

The IR repeater unit includes:

- 2 x Dual IR emitter cables included
- 1 x IR receiver cable
- 1 x Mains plugpack
- 1 x Repeater/Extender
- Mounting holes & screws
- Cable length: 3m
- Dimensions: 03(L) x 32(W) x 16.5(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 4+
AR1828	$79.90	$71.90	$63.90

BIDIRECTIONAL IR EXTENDER OVER CAT5E - 100M

1 YEAR WARRANTY

Control AV equipment remotely from either the source or receiver that are up to 100m apart. You could, for example, change the media playing on a DVD player in another room whilst standing in front of the TV, or control the TV volume from the room with the media player. Suitable for domestic and commercial applications including digital signage, demo stations or video conferencing etc. and features wide band IR circuitry to suit modern PayTV remote controls. The kit includes two extenders with IR LED on a 3m lead, and a mains power adaptor. All you need is standard Cat5e UTP network cable.

- Bi-directional IR path
- 2 x IR emitter output connections
- Single power supply on either TX or RX unit
- Each device can be TX or RX

SPECIFICATIONS	AR1809
IR Frequency Range	30kHz to 60kHz
IR Lead Length	3 metres
Power	12V/200mA (Mains adaptors incl.)
Dimensions	75(L) x 64(W) x 29(H)mm
Weight	28g

Cat.	Qty 1+	Qty 2+	Qty 4+
AR1809	$94.90	$84.90	$75.90

For next day delivery, or Click and Collect, see page 5

Infrared (IR) Extenders CONTINUED

WIRELESS IR EXTENDER KIT

NEW

Wi-Fi

Wirelessly control your video sources such as cable TV, streaming boxes or Blu-Ray/DVD players from another room. Infrared remote controls usually have an effective range of only 5-10m, however this extender allows you to use your remote control on devices up to 50m away! Features in-built infrared ports for easy operation and infrared extension cables if you have devices hidden inside a wall or TV cabinet. Supports up to 4 transmitters with the purchase of additional kits for control to one or more TVs from the one source. Perfect for controlling a source device which is being displayed in a bedroom, garage, conference room or an outside entertainment area. Includes infrared emitter cable, infrared receiver cable and two mains power adaptors.

Note: Transmission distance varies depending upon the obstacles in between the transmitter and receiver such as walls or solid objects.

SPECIFICATIONS	AR1866
Wireless Frequency:	433MHz
Wireless Range:	Up to 50m
Infrared Frequency:	20-60KHz
Infrared Range:	Up to 5m
Infrared Angle:	30°
Power:	5VDC, 1A (Micro B USB)
Power Consumption:	60mA Each (Max)
Dimensions:	121(D) x 95(W) x 20(H)mm (Each)

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR1866	$79.90	$71.90	$63.90

Mobile Video & Audio Leads

LIGHTNING PLUG TO 3.5MM AUDIO PLUG LEAD

NEW

This lead allows you to connect your iPhone®, iPad® or iPod® with a Lightning™ port directly into an auxiliary input. Suitable with speakers, headphones or any other audio device with an auxiliary input.

Note: Not compatible with volume control and microphone functions.

SPECIFICATIONS	WC7763
Audio Plug	3.5mm, 3 Pole
iOS™ Compatibility	10.0+
Frequency	192KHz, 24-bit
Length	1m

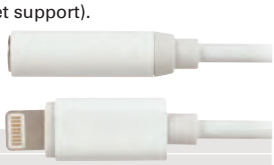
	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7763	$18.90	$16.90	$14.90

LIGHTNING™ PLUG TO 3.5MM AUDIO SOCKET LEAD

NEW

Connect your favourite analogue headphones to your iPhone with a Lightning connector. Works just like the original included with your device, which may have been lost or damaged. Stereo audio output (no headset support).

Note: Not compatible with volume control and microphone functions.



SPECIFICATIONS	WC7761
Audio Plug	3.5mm, 3 Pole
iOS™ Compatibility	10.0+
Frequency	192KHz, 24-bit
Length	1m

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7761	$13.90	$12.90	$10.90

USB TYPE-C TO 3.5MM AUDIO ADAPTOR

Quick and easy headphone connection for your USB Type-C enabled device. Plug and play connection with most systems. Braided cable and gold-plated 3.5mm socket for long-lasting performance.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7930	$22.90	$20.90	$17.90

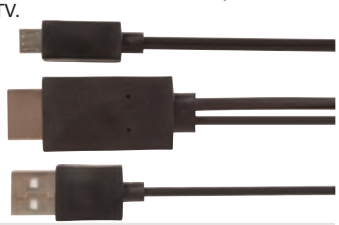
MHL™ TO HDMI LEAD WITH 11 PIN SAMSUNG ADAPTOR

NEW

Mobile High-Definition Link (MHL™) is a feature built into popular legacy smartphones and tablets, which enables full HD 1080p video output from the Micro B USB port. Connect this MHL™ to HDMI cable to your TV or monitor and mirror everything from your smartphone or tablet. This cable requires USB power for most smartphones and tablets which can connect to a USB mains power adaptor or from a USB port on an TV. Includes 5 pin to 11 pin Micro B USB Samsung® adaptor.

Note: Only compatible with MHL™ supported devices, refer to the manufacturers website or user manual of your device prior to use.

- 2m



SPECIFICATIONS	WQ7428
MHL®	V1.0
Android Compatibility	4.0+
Power Required	5VDC, 500mA
Power Comsumption	100mA

	Cat.	Qty 1+	Qty 2+	Qty 4+
	WQ7428	$28.90	$25.90	$22.90

USB TYPE-C TO 3.5MM AUDIO CABLE 1M

NEW

Quick and easy audio connection for your USB Type-C enabled smartphone, tablet, laptop or PC. Features a built-in Realtek DAC (digital-to-analogue-converter) audio chipset for high quality sound performance and compatibility across devices that support Type-C audio output.

SPECIFICATIONS	WC7932
USB	3.0 Type-C
Audio Plug	3.5mm, 3 Pole
Chipset	Realtek DAC
Frequency	192KHz, 24-bit
Length	1m

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC7932	$33.90	$29.90	$26.90

2-IN-1 3.5MM AUDIO & CHARGING ADAPTORS

NEW

Connect your favourite analogue headphones to your iPhone®, iPad® or iPod with a lightning™ connector, or USB Type-C for Android devices.. Works like the original adaptor included with your device, which may have been lost or damaged. Suitable with earphones, headphones or any other device with a 3.5mmm stereo audio connector.

Note: Not compatible with volume control and microphone functions.

SPECIFICATIONS	BOTH
Cable Length	150mm
Dimensions	30(L) x 32(W) x 8(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Lightning™	WC7767	$22.90	$20.90	$17.90
USB Type-C	WC7934	$45.90	$40.90	$35.90

Headphones - Wireless

FOLDING HEADPHONES WITH BLUETOOTH® & FM RADIO

NEW

Great sounding over ear headphones with soft breathable fabric for a comfortable fit. Stream music wirelessly from your Smartphone via Bluetooth or listen to your favourite radio station using the built-in FM radio. There is also provision to play MP3 files from your microSD card, and a 3.5mm stereo cable is included for direct connection. Playback controls are featured on the side of the headphones, and an integrated microphone allows you to take phone calls on the go. When not in use, the headphones fold down for easy storage. A micro USB charging lead is supplied to charge the internal Li-ion battery. A 3 hour charge provides around 8 hours listening or 10 hours talk time.

Bluetooth

SPECIFICATIONS	AA2128
Bluetooth Version	V4.2
Working Range	10m
Battery	400mAh Rechargeable Lithium
Charging Time	About 2-3 hours
Music Playing Time	8 hours

	Cat.	Qty 1+	Qty 4+
Bluetooth	AA2128	$33.90	$29.90

HEADPHONES WITH BLUETOOTH®

Totally self-contained with battery and Bluetooth®, so you can freely listen to your smartphone or music player (or Bluetooth® enabled Hi-Fi system) totally untethered. Of course they'll work from a standard 3.5mm audio source (cable included). Playback controls are featured on the side of the headphones, and their audio quality is fantastic. Of course these aren't just headphones - a built-in microphone gives you full hands-free capability for calls on your smartphone or gaming.

- Bluetooth® or 3.5mm connection
- 10min auto power-off
- Built-in microphone

Bluetooth

SPECIFICATIONS	AA2134
Battery	300mAh Rechargeable Polymer Li-ion Battery
Charge Time	Approx 2hrs
Usage Time	Approx 6hrs ar 80% volume
Weight	303g
Dimensions	200(H) x 170(W) x 90(D)mm
Micro USB to 3.5mm Jack Cable Length	1.3m
Micro USB to USB Cable Length	560mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth®	AA2134	$59.90	$53.90	$47.90

NOISE CANCELLING HEADPHONES WITH BLUETOOTH®

1 YEAR WARRANTY

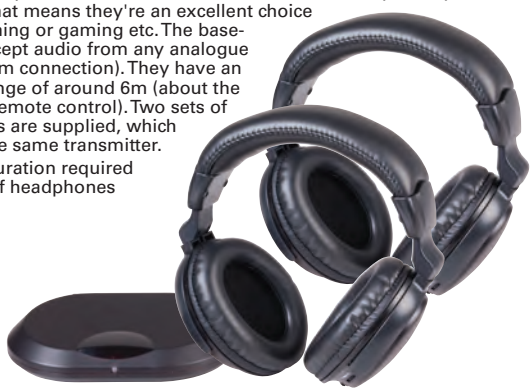
These Bluetooth® Noise Cancelling headphones offer crystal clear sound performance with dynamic sound and strong deep bass reproduction, with a built-in rechargeable battery that provides continuous playback of up to 14 hours (noise cancelling and Bluetooth®). It folds flat in its supplied carry case, perfect for those long noisy trains and plane rides. Includes carry case, 3.5m audio cable for wired connection and USB charging cable.

Bluetooth

SPECIFICATIONS	AA2131
Speaker Frequency	20~20kHz
Bluetooth	V4.0+EDR
Bluetooth® Range	Up to 10m
Playing Time	Up to 30hrs
Talk Time	Up to 40hrs
Charging Time	2-3hrs
Battery	Li-ion 3.7V, 500mA
Dimensions	200(H) x 142(W) x 80(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth	AA2131	$149.00	$133.90	$118.90

WIRELESS INFRARED HEADPHONES - TWIN PACK



Infrared headphones are an excellent choice for relatively steady listening. That means they're an excellent choice for TV-watching or gaming etc. The base-unit will accept audio from any analogue input (3.5mm connection). They have an effective range of around 6m (about the same as a remote control). Two sets of headphones are supplied, which run from the same transmitter.

- No configuration required
- Two sets of headphones

SPECIFICATIONS	AA2037
Headphones Power	2 x AAA Batteries each (not included)
Transmitter Power	12VDC Mains plugpack (included)
Transmission Distance	Up to 6m
Headphones Weight	247g (excluding batteries)
Transmitter Weight	67g
Headphones Dimensions	176(W) x 197(H) x 38(D)mm (when folded)
Transmitter Dimensions	120(W) x 20(H) x 80(D)mm

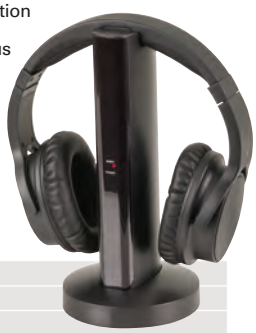
1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Infrared Pair	AA2037	$119.00	$106.90	$94.90

2.4GHZ WIRELESS STEREO HEADPHONES WITH TOSLINK

1 YEAR WARRANTY

Wireless headphones provide fantastic freedom for personal listening pleasure, but there's more than just no cable that makes these fantastic. Firstly, they have a powerful 800mAh battery for hours of listening, as well as a convenient charging dock on top of the base-station. No fussing about with cables, just rest them on the base station and they'll begin recharging. What's more is connectivity - standard 3.5mm stereo audio is a given, but with direct digital TOSLINK connection you can enjoy premium digital audio without an additional digital de-coder! It also includes various cables and mains plugpack so there's nothing more to buy!



- 3.5mm & TOSLINK audio connection
- Rechargeable headphones
- Headphones sit on-top of sending unit to charge
- Volume up/down buttons on headphones
- Headphones can be connected directly to audio source via supplied 3.5mm or RCA cables
- Quality 2.4GHz transmitter

SPECIFICATIONS	AA2036
Inputs	1 x 3.5mm, 1 x Optical
Power	5VDC @ 500mA
Battery	2.7V 800mAh Li-ion rechargeable
Weight	Headphones: 242g Transmitter: 226g
Dimensions	Headphones: 200(W) x 190(H) x 74(D)mm Transmitter: 235(H) x 112(Dia.)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
2.4GHz	AA2036	$169.00	$151.90	$134.90

INFRARED HEARING AID TRANSMITTER & RECEIVER

1 YEAR WARRANTY

An ingeniously designed infrared TV hearing aid system that utilises tele-coil (t-coil) technology for use with most common hearing aids. Unlike other big and clunky TV hearing aid designs, this system has a comfortable and lightweight neck loop that picks up the audio signal from the infrared transmitter. The signal is then retransmitted electromagnetically to the hearing aid device producing crystal clear audio sound. The infrared docking station has facility for two T-coil receiver neck loops. Features voice clarifying and noise cancelling technology, it also has automatic signal, balance & tone controls.

- Phone hearing aid function
- Chatting hearing aid function
- Wired listening hearing aid function for MP3, radio, PC etc
- Battery life 8 hours

	Cat.	Qty 1+
Transmitter/Receiver	AA2099	$89.00

For next day delivery, or Click and Collect, see page 5

Headphones - Wired

LIGHTWEIGHT HEAVY BASS STEREO HEADPHONES

Designed for extra bass performance.
- Fully adjustable headband & speakers for greater comfort
- Supplied with 3.5mm plug and 6.5mm adaptor

1 YEAR WARRANTY

SPECIFICATIONS	AA2007
Driver Diameter	34mm
Power Handling	100mW
Nominal Impedance	32 Ω
Frequency Response	20Hz - 20kHz
Sensitivity	100dB

Cat.	Qty 1+	Qty 4+	Qty 10+
AA2007	$19.90	$17.90	$15.90

HIGH QUALITY LIGHTWEIGHT STEREO HEADPHONES

Tipping the scales at a meagre 80 grams, these lightweight stereo headphones provide outstanding performance, clarity and comfort. Featuring high output drivers with neodymium magnets, they produce crystal clear sound with crisp highs and smooth bass response.
- Soft leatherette swivel ear pads, adjustable headset and 1.2m lead

1 YEAR WARRANTY

BEST SELLER

SPECIFICATIONS	AA2061
Driver Diameter	30mm
Power Handling	50mW
Nominal Impedance	32 Ω
Frequency Response	15Hz - 20kHz
Sensitivity	107dB

Cat.	Qty 1+	Qty 4+	Qty 10+
AA2061	$31.90	$28.70	$25.50

STEREO HEADPHONES

Nothing beats a quality set of headphones. With comfortable padding and adjustment for a perfect fit, these are a great choice - even for extended use. They sound absolutely superb and offer great value for money.
- Comfortable
- Adjustable
- Quality audio

1 YEAR WARRANTY

SPECIFICATIONS	AA2133
Frequency Range	20-20000Hz
Impedance	32Ω
Sensitivity	110dB
Maximum Power Input	100mW
Plug	3.5mm Stereo golden plug
Microphone Frequency Range	-42+/-3dB (1kHz 0dB=1V/Pa)
Microphone Impedance	2.2KΩ
Microphone Sensitivity	-58dB +/-3dB
Cable Length	1.5m
Weight	309g
Dimensions	200(H) x 170(W) x 90(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AA2133	$36.90	$33.20	$29.50

buying online? use PayPal!

PayPal

You can use PayPal for any online orders, for delivery or 1hr Click and Collect pickup. Just select PayPal during checkout for added convenience!

Headsets With Microphone

RECHARGEABLE BLUETOOTH® HEADSET

Features anti-noise technology, voice command, last number redial and call rejection. The built-in Li-Po battery charges from a USB port (USB cable included). Compatible with Bluetooth® mobile phones and Smartphones.
- Bluetooth® V2.1 with 10m range
- Supports 2 multipoint connections
- Mono
- 3 hour charge time, 13 hour usage time
- 220 hour standby time
- Built in rechargeable Li-Po Battery
- Weight: 42g

1 YEAR WARRANTY

Bluetooth®

Cat.	Qty 1+	Qty 4+	Qty 10+
AA2080	$59.90	$53.90	$47.90

USB STEREO HEADSET

A true plug and play headset! It simply plugs into your computer's USB port and delivers excellent sound quality. The 38mm drivers ensure solid bass while maintaining a balanced response all the way up to 20kHz. The sensitive electret microphone is fitted to a flexible gooseneck and is fully adjustable. Perfect for gaming and VoIP communication. USB 2.0 compliant.

1 YEAR WARRANTY

SPECIFICATIONS	AA2032
Impedance	32Ω
Driver Diameter	38mm
Frequency Response	20Hz - 20kHz

Cat.	Qty 1+	Qty 4+	Qty 10+
AA2032	$48.90	$44.00	$39.10

GAMING HEADPHONES

A gaming headset designed for hardcore gamers who enjoy many hours of game-play and demand superior gaming audio, clarity, and bass. They are comfortable and adjust to different head sizes, look great and feature a microphone that swivels 120°. The microphone tucks away out of view when not required. The braided fabric audio lead is over 2m long and incorporates a volume control and mic mute switch.

1 YEAR WARRANTY

SPECIFICATIONS	AA2126
Frequency Range	20Hz - 20kHz
Impedance	32Ω

Mic. Diameter	6.0 x 5.0mm
Plug Type	2 x 3.5mm stereo
Cable Length	2m

Cat.	Qty 1+	Qty 4+	Qty 10+
AA2126	$69.90	$62.90	$55.90

Earphones - Mono

MAGNETIC EARPIECE

Magnetic 8 Ohm earpiece with 3.5mm plug connected. Suitable for radios, portable TVs, etc.
- Lightweight and easy to use

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3300	$4.90	$4.40	$3.90

CRYSTAL EARPIECE

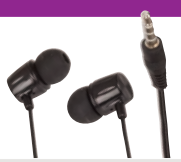
Crystal earpiece of high impedance with 3.5mm plug. Suitable for crystal sets or for experimental use.

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3305	$7.90	$7.20	$6.50

Earphones - Stereo

EARPHONES

Great sounding replacement inner ear earphones for general purpose use. Black in colour. 1.2m long cable with 3.5mm stereo plug.



NEW

SPECIFICATIONS	AA2152
Speaker	10mm Dia.
Frequency Range	20Hz-20kHz
Impedance	24Ω
Sensitivity	100dB
Max. Power Input	10mW
Cable Length	1.2m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2152	$7.90	$7.10	$6.30

CANAL EARPHONES WITH MICROPHONE

These canal earphones (also known as Canalphones) fit snugly inside your ear canal and help block out ambient noise as you listen. An inline microphone and controls enable you to take calls or play / pause without having to reach for your device. Black in colour. 1.2m long cable with 3.5mm RTTS plug.

NEW

SPECIFICATIONS	AA2154
Speaker	10mm Dia.
Frequency Range	20Hz-20kHz
Impedance	24Ω
Sensitivity	100dB
Max. Power Input	10mW
Mic	-58dB
Cable Length	1.2m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2154	$8.90	$8.00	$7.10

WHITE EARPHONES WITH MICOPHONE AND VOLUME CONTROL

NEW

Great sounding replacement earphones with an inline microphone and controls to take calls or play, pause or adjust volume without having to reach for your device. White in colour. 1.2m long cable with 3.5mm RTTS plug.

SPECIFICATIONS	AA2158
Speaker	10mm Dia.
Frequency Range	20Hz-20kHz
Impedance	24Ω
Sensitivity	100dB
Max. Power Input	10mW
Mic	-58dB
Cable Length	1.2m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2158	$10.90	$9.90	$8.90

ALUMINIUM EARPHONES WITH MICROPHONE AND VOLUME CONTROL

NEW

Great looking and sounding replacement earphones with an inline microphone and controls to take calls or play, pause or adjust volume without having to reach for your device. Black aluminium housing with silver trim. 1.2m long cable with 3.5mm RTTS plug.

SPECIFICATIONS	AA2156
Speaker	10mm Dia.
Frequency Range	20Hz-20kHz
Impedance	24Ω
Sensitivity	100dB
Max. Power Input	10mW
Mic	-58dB
Cable Length	1.2m

1 YEAR WARRANTY

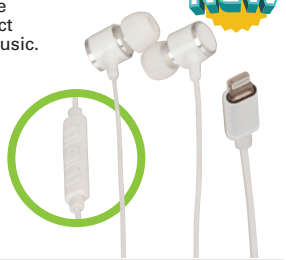
	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2156	$10.90	$9.90	$8.90

EARPHONES WITH LIGHTNING™ CONNECTOR

Connect to iPhones and iPads with the Lightning™ Connector. Built-in microphone allows you to make calls, and three inline buttons allow you to answer, end or reject calls, adjust volume or to control your music. Cable is 1.2m in length.

- Inline microphone
- Volume control and play/pause button
- Apple™ MFi Certified

NEW



Made for iPhone | iPad | iPod

SPECIFICATIONS	AA2150
Unit Driver	10mm
Sensitivity	100dB
Frequency Response	20Hz ± 20kHz
Impedance	32Ω
Output Power	5mW
Mic Sensitivity	-42dB ±3dB
Cable Length	1.2m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Lightning™	AA2150	$39.90	$35.90	$31.90

EARPHONES WITH USB TYPE-C CONNECTOR

Designed to connect to modern smartphones, tablets, and computers with USB Type-C. A built-in microphone allows you to make calls, and three in-line buttons allow you to answer, end or reject calls, adjust volume or to control your music. The cable is 1.2m in length.

- Inline microphone
- Volume control and play/pause button
- Built-in DAC chipset

NEW

SPECIFICATIONS	AA2148
Unit Driver	10mm
Sensitivity	95dB
Frequency Response	20Hz ± 20kHz
Impedance	16Ω
Output Power	5mW
Mic Sensitivity	-42dB ±3dB
Cable Length	1.2m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2148	$33.90	$29.90	$26.90

PILLOW SPEAKERS

A safe and convenient alternative to headphones or earphones whilst listening to music in bed. Simply plug in an MP3 player, iPod® or radio and place into a pillow case.

- Perfect for children and adults alike
- 1m lead with 3.5mm stereo plug
- No batteries required
- 1m removable cable with 3.5mm plug

SPECIFICATIONS	AS3029
Impedance	16 Ω @ 1kHz
Rated Power	0.1W
Maximum Power	0.6W
Resonance Frequency	500Hz ± 20%
Dimensions	60mm Dia. Approx

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS3029	$12.90	$11.30	$10.30

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Wireless Earphones

WIRELESS SPORTS EARPHONES WITH BLUETOOTH®

NEW

Provides a quality audio experience without any cables! Just 11g, you might even forget you're wearing anything at all! Tether them to your smartphone and they'll act as a full handsfree device. Accept or reject calls, control music playback and volume - and the integrated microphone means you can be at the gym and talking on the phone at the same time. They'll run for a full 4hrs before they need a recharge too.

- Phone Controls / Handsfree
- Ultra Lightweight
- Rechargeable
- 2 Hour Recharge Time

Bluetooth®

SPECIFICATIONS	AA2141
Bluetooth Version	Bluetooth V4.2
Profiles Supported	A2DP/HFP/HSP/AVRCP
Frequency	2.4GHz
Working Range	10m
Charging Time	Up to 2 Hours
Battery	55mAh, Lithium
Music Playing Time	Up to 4 Hours
Talking Time	Up to 4.5 Hours
Impedance	32Ω

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2141	$28.90	$25.90	$22.90

WIRELESS EARPHONES WITH TWS AND BLUETOOTH

NEW

These classy rechargeable earbuds can be used separately or used as a pair. Pairing with your Smartphone via Bluetooth is straightforward, and the True Wireless Stereo (TWS) functionality provides amazing stereo sound for their compact size. The small push button on each earbud pauses and plays music when you are listening to your favourite tunes. Incoming phone calls have their phone number broadcast over the earbuds, which you can accept or reject using the same push button. When not in use the earbuds charge from the pocket sized charging case with fliptop lid. The built-in battery can be charged from a USB port.

- True Wireless Stereo (TWS)
- Rechargeable
- Built-in microphone
- Battery Capacity:
  Case: 380mAh
  Earphones: 45mAh x 2

Bluetooth®

SPECIFICATIONS	AA2145
Bluetooth Version	4.2
Battery Capacity	380mA (Case), 45mA x 2 (Earphones)
Charging Case	450mA
Charge Time	2 hours Approx.
Play Time	2 hours
Talk Time	2 hours
Standby Time	100 hours (single), 60 hours (pair)
Driver Size	10mm
Effective Range	Up to 10m
Impedance	16Ω
Sensitivity	98dB
Power	5mW x 2

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA2145	$33.90	$29.90	$26.90

3.5MM STEREO PLUG TO PLUG ARMOURED AUDIO CABLE - 1M

NEW

Protected against accidental damage using a stainless steel shield. It makes the cable extremely durable against damage and general wear and tear. 1m long.

- Stainless steel armour
- Very durable

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	WA7013	$16.90	$14.90	$13.90

Earphone Accessories

AEROPLANE HEADPHONE ADAPTOR

Use your own headphones in an aeroplane. 3.5mm stereo socket to 2 x 3.5mm mono plug. Suits planes with 2 x 3.5mm sockets.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3581	$6.90	$6.20	$5.50

6M CURLY 6.5MM EXTENSION CABLE

6.5mm Stereo Plug to Socket

	Cat.	Qty 1+	Qty 4+	Qty 10+
	WA7046	$13.90	$12.50	$11.10

HEADPHONE 3.5MM EXTENSION CABLES

3.5mm Stereo Plug to Socket.

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 metre lead	WA7046	$13.90	$12.50	$11.10
5 metre lead	WA7011	$11.90	$10.70	$9.50

3.5MM LEAD WITH MICROPHONE AND VOLUME CONTROL

NEW

Add a microphone and inline controls to your favourite headphones. The 1m long cable has a 3.5mm stereo plug at one end to plug into your headphones and 3.5mm TRRS plug at the other to plug into a Smartphone, Tablet or computer. The inline microphone allows you to make calls, and the switch buttons answer/hangup calls, select the previous or next track, or adjusts the volume.

WA7120

WA7122

SPECIFICATIONS	BOTH
Signal Type	Audio
Input Type	2.5mm Stereo
Input Quality	1.0pc
Input Connection	Plug
Output Type	3.5mm Stereo
Output Quantity	1.0pc
Output Connection	WA7122 Plug / WA7120 Socket

	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug	WA7122	$18.90	$16.90	$14.90
Socket	WA7120	$16.90	$14.90	$13.90

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Wireless Speakers

MINI SPEAKER WITH BLUETOOTH®

NEW

Compact and convenient to take your music anywhere. Features Bluetooth® Wireless Technology which works up to 10m away . Runs between 2.5 to 5 hours on the internal rechargeable battery. Great for an afternoon at the beach, picnic at the park, and much more. Includes USB charging cable. Available in black and white colours.

Bluetooth

SPECIFICATIONS	XC5234
Bluetooth® Version	4.2+EDR
Output Power	3WRMS
Transmission Range	Up to 10m
Frequency Response	150Hz-18KHz
Playback Time	2.5-5 Hours
Charging Time	2 Hours
Battery	Li-ion 3.7V, 600mA
Power	5VDC, 500mA (Micro B USB)
Power Consumption	300mA (Max)
Dimensions	74(H) x 69(Dia)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
	XC5234	$28.90	$25.90	$22.90

MINI WATERPROOF 360° SPEAKER WITH BLUETOOTH®

NEW

This mini waterproof speaker with Bluetooth® Wireless Technology has a full 360° projected sound so nobody misses out on the party! Features a 3.5mm audio jack to run a direct audio cable and a microphone so you can take calls through the speaker. Runs up to 8 hours on the internal rechargeable battery. Perfect for the beach, camping, boating or by the pool. Includes 3.5mm to 3.5mm auxiliary and USB charging cables.

- 360° Surround Sound
- Waterproof
- Rechargeable Battery
- 3.5mm Auxiliary Jack
- Hands-free Calls

Bluetooth

SPECIFICATIONS	XC5236
Bluetooth® Version	4.2+EDR
Output Power	4WRMS
Transmission Range	Up to 10m
Frequency Response	90Hz-18KHz
IP Rating	IPX7
Playback Time	4-8 Hours
Charging Time	3-4 Hours
Battery	Li-ion 3.7V, 1200mA
Power	5VDC, 1A (Micro B USB)
Power Consumption	500mA (Max)
Dimensions	117(H) x 77(Dia)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC5236	$45.90	$40.90	$35.90

Check out our Smart Wi-Fi accessories compatible with Google Assistant:

See page 355 for Smart Power Plugs
See page 413 for Smart Light Bulbs

2-IN-1 WATERPROOF 360° SPEAKER WITH TWS & BLUETOOTH®

NEW

Take your beats anywhere you go with this stylish 360° stereo surround sound speaker system with Bluetooth® technology. By simply removing the silicon cover, you can twist and rotate to separate the speaker into two for true left and right stereo sound using the integrated True Wireless Stereo (TWS) technology. The fully waterproof design makes it the perfect portable companion for listening to your favourite tunes while camping, by the pool or at the beach. Once the speaker is paired with your Smartphone or MP3 player, you can blast your tunes for up to 15 hours from a full charge. Includes a 2-way USB charging cable.

- 2-In-1 Seperated Speaker Design
- 360° Stereo Surround Sound
- True Wireless Stereo (TWS)
- Waterproof
- Rechargeable Battery
- Hands-free Calls

SPECIFICATIONS	XC5242
Bluetooth® Version:	4.2+EDR
Output Power:	15WRMS (2 x 7.5WRMS)
Transmission Range:	Up to 10m
Frequency Response:	68Hz-20KHz
IP Rating:	IPX7
Playback Time:	3-15 Hours
Charging Time:	3-4 Hours
Battery:	Li-ion 3.7V, 1500mA x 2
Power:	5VDC, 1A (Micro B USB)
Power Consumption:	500mA (Max)
Dimensions:	210(H) x 84(Dia)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
2-in-1	XC5242	$119.00	$106.90	$94.90

WATERPROOF 360° SPEAKER WITH BLUETOOTH®

NEW

This is a totally 360° stereo surround sound speaker which is perfect for entertaining. The IPX7 rating means it will withstand depths of up to a metre so you can use it at the beach or by the pool. True Wireless Stereo (TWS) technology which allows you the ability to play true left and right channel audio with the purchase of an additional speaker. Also features NFC™ connectivity for quick connection with your smartphone or tablet and Aux input for non-Bluetooth® devices. Over 12 hours of playtime and a 5 hour charge time with the rechargeable Lithium battery. Includes 3.5mm to 3.5mm auxiliary and USB charging cables.

- 360° Stereo Surround Sound
- True Wireless Stereo (TWS)
- NFC™ Connectivity
- Waterproof
- Rechargeable Battery
- 3.5mm Auxiliary Jack
- Hands-free Calls

Bluetooth

SPECIFICATIONS	XC5240
Bluetooth® Version	4.2+EDR
Output Power	8.6WRMS (2 x 4.3WRMS)
Transmission Range	Up to 10m
Frequency Response	70Hz-18KHz
IP Rating	IPX7
Playback Time	3-12 Hours
Charging Time	4-5 Hours
Battery	Li-ion 3.7V, 2200mA
Power	5VDC, 1A (Micro B USB)
Power Consumption	700mA (Max)
Dimensions	168(H) x 68(Dia)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC5240	$79.90	$71.90	$63.90

Waterproof Wireless Speakers

PORTABLE MINI BOOM BOX WITH BLUETOOTH®

NEW

Take the beats with you using this portable boom box. Stream music from your Smartphone or Tablet via Bluetooth, or connect directly through the Aux input. There is also an FM radio built-in or you can play your MP3 collection by plugging in your USB thumb drive or SD card. Controls, including volume, are located in the side of one the speaker. To recharge, simply connect to an available USB power source.

- Up to 10m Bluetooth Range
- USB & SD Card Playback
- FM Radio
- AUX Input
- Rechargeable
- Dimensions: 250(L) x 138(Dia)mm

Bluetooth®

SPECIFICATIONS	CS2469
Bluetooth® Version	A2DP
Bluetooth Range	Up to 10m
Inputs	1 x USB, 1 x SD, 1 x 3.5mm Aux
Horn Size	3 inch
Horn output	10W, 4Ω
Frequency Response	100Hz-20kHz
Battery	1500mAh Rechargeable

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	CS2469	$45.90	$40.90	$35.90

PORTABLE BOOM BOX WITH BLUETOOTH®

NEW

Ultra convenient and surprisingly lightweight for its size, this isn't your average Bluetooth® speaker. It features an integrated 6" subwoofer and dual 3" tweeters with 2.1 channel sound.

Pair with your favourite Bluetooth® compatible device to stream your music, or insert your favourite USB/SD media for file playback. Connect up to two microphones or instruments to provide PA functionality, with its own volume and echo controls to release your inner rock star! FM radio receiver is even included and has 3-6 hours playback time from the internal lithium battery. Perfect for parties, camping or tradies where you want a little more than a 2" speaker taking care of your music needs. Includes carry strap, 3.5mm to 3.5mm auxiliary cable, USB charging cable and mains power adaptor.

- Bluetooth® Wireless Technology
- USB & SD Card Playback
- FM Radio
- Rechargeable Battery
- Dual 6.5mm Microphone Inputs
- 3.5mm Auxiliary Jack

Bluetooth®

SPECIFICATIONS	CS2481
Bluetooth® Version	2.1+EDR
Inputs	1 x 3.5mm Aux, 2 x 6.5mm Mic
Audio Sources	Bluetooth®, USB, SD, FM Radio
Transmission Range	Up to 10m
FM Frequency	87.5-108.0MHz
USB/SD Capacity	Up to 32GB

1 YEAR WARRANTY

	Cat.	Qty 1+
	CS2481	$149.00

tech talk TWS Explained

True Wireless Stereo (TWS) technology allows you to wirelessly connect two Bluetooth speakers together to provide you true left and right channel stereo quality sound. Once your smartphone, tablet or laptop is paired with the main speaker; connect a second speaker which will act as a slave and be able to play the same music in stereo format. Any speaker that supports TWS technology can be paired together without the need for messy cables or wires.

TV Soundbar with Toslink and Bluetooth®

This high quality sound bar works very well for a TV, but can also be used as a standalone Bluetooth® speaker. There are a variety of input sources including two 3.5mm stereo line inputs, as well as digital optical for fantastic clarity. The unit includes a handy remote control for mode selections and volume control. It can be easily wall mounted, or sit on your media cabinet. Sleek black finish to match just about any decor.

- 2 x 3.5mm stereo inputs
- TOSLINK optical input
- Wall mountable

1 YEAR WARRANTY

Bluetooth®

SPECIFICATIONS	XC5231
Output	2 x 5W
Frequency Response	130Hz - 16kHz
Driver	2 x 3"
S/N	>65dB
Distortion	<0.5%
Power	14V @ 1A
Weight	1.65kg
Dimensions	810(W) x 88(H) x 54(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC5231	$94.90	$84.90	$75.90

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Audio Sender / Receivers

BLUETOOTH® HEADPHONE ADAPTOR

This genius device will convert your standard headphones into portable Bluetooth® headphones! Totally universal and easy to use. It weighs just 5g but will give you hours of playback. Tether to just about any Bluetooth® device while also gaining volume and track controls. It features a handy belt clip, and 3.5mm audio socket for universal compatibility.

- Rechargeable battery
- Belt clip
- Universal

Bluetooth®

SPECIFICATIONS	AA2106
Battery	Rechargeable
Weight	5g
Dimensions	60(H) x 10(Dia.)mm (excluding clip)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA2106	$16.90	$14.90	$13.90

BLUETOOTH® 4.0 RECEIVER WITH NFC® & MUSIC CONTROL

A clever and convenient way to listen to your music or take calls on the go without having to be tethered to your phone or Tablet. It uses Bluetooth® 4.0 and Apt-x coding technology for high quality stereo audio transmission, and NFC® (Near Field Communication) that makes it easy and fast to pair with your phone with one touch. It features a rechargeable battery, belt/pocket clip and 3.5mm stereo socket to connect your own earphones, or to the car radio (even the home Hi-Fi) using the supplied 3.5mm audio cable. The micro USB port allows you to charge the device (cable included) or to stream music to your computer.

- Multifunctional buttons for track and volume control, or to answer and end calls
- Suitable power supply MP3544

Bluetooth®

SPECIFICATIONS	AA2087
Bluetooth® Version	4.0
Charge Time	2-3 hours
Standby Time	Up to 200 hours
Use Time	8 hours (average)
Transmission Range	10m
Dimensions	34(L) x 34(W) x 12.5(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® + NFC	AA2087	$55.90	$50.30	$44.70

BLUETOOTH® 4.0 RECIEVER WITH NFC®

Stream music from your Bluetooth® or NFC® enabled Smartphone or Tablet directly to your stereo system or stand-alone speakers wirelessly. It is easy to setup and allows you to control the music from up to 10m away. Power can be supplied using the included 5V power supply or from a USB port on a stereo using 1.9m USB lead. A 1.8m male to male 3.5mm audio lead and a 3.5mm female to 2 x RCA lead are included to connect the receiver to the audio input of your speaker system.

- Bluetooth® 4.0v with SBC® support for high quality stereo audio
- Up to 10m transmission distance
- Can work with non-NFC® equipped devices
- A2DP Bluetooth® profile supported
- Audio stereo output
- Stores up to 8 device ID's

Bluetooth®

SPECIFICATIONS	AA2108
Bluetooth® Version	4.0
Power	5V (power supply included)
Dimensions	58(L) x 58(D) x 15(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® + NFC	AA2108	$69.90	$62.90	$55.90

BLUETOOTH® 4.1 TRANSMITTER & RECEIVER

Connecting one device to another has never been easier. This multidirectional device can be setup to transmit, or receive. In transmit mode, it can stream an audio source to a Bluetooth® capable receiver or stand-alone Bluetooth® speaker. In receive mode it can receive streaming from a Bluetooth® capable computer, iPhone®, and more, to play on your stereo system, computer, and more. It retains full digital quality and has an internal rechargeable battery. It charges in around 2hrs, for approximately 12hrs send/receive time. It's tiny and weighs just 18g, so you can take it anywhere!

- Send / Receive Mode Selection
- Rechargeable and Portable
- Extremely Lightweight

Bluetooth®

SPECIFICATIONS	AA2104
Operating Frequency	2.4 GHz
Recharge Time	2hrs Approx.
Run Time	12hrs Approx.
Bluetooth® Version	v4.1, Class II
Power	Internal 250mAh Lithium Battery
Recharge Method	USB Cable (Supplied)
Dimensions	44(W) x 44(D) x 12(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	AA2104	$89.90	$80.90	$71.90

BLUETOOTH® 5.0 AUDIO TRANSMITTER AND RECEIVER WITH OPTICAL

NEW

Transmit or receive. In transmit mode, it can stream an audio source to a Bluetooth® capable receiver or standalone Bluetooth speaker. In receive mode, it can receive streaming from a Bluetooth capable computer, Smartphone, and more, to play on your stereo system, computer, headphones, etc. It retains full digital quality with digital SP/DIF inputs and outputs, but also includes an analogue AUX input and output for older systems. The device supports the latest Bluetooth® 5.0 technology, and allows two Bluetooth® devices to be paired at the same time. Its compact size and internal rechargeable battery makes it extremely portable. A 2 hour charge provides up to 12-15hrs send/receive time.

- Send / Receive Mode Selection
- Rechargeable & Portable
- Supports Analogue and Digital Audio
- Up to 50 Hours Standby Time
- CSR 8670 Chipset

Bluetooth®

SPECIFICATIONS	AA2112
Bluetooth® Version	V5.0
Operation Range	Class II, 10 metres
Battery Capacity	3.7V, 350mAh
Charging Time	2 hours Approximately
Standby Time	50 hours Approximately (In Receiver Mode)
Working Time	AUX: 15 hours Approximately SPDIF: 12 hours Approximately
Weight	39g
Dimensions	60(W) x 60(D) x 18(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA2112	$119.00	$106.90	$94.90

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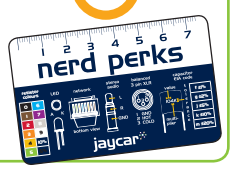


For next day delivery, or Click and Collect, see page 5

Turntables

TURNTABLE WITH CD PLAYER AND USB/MICROSD

This unit is a proper transcription type turntable that has a belt drive, strobe-type speed check, pitch and anti-skating control, and s-shaped arm with high quality cartridge. Not only that, it comes with a PLL FM Tuner, CD player, Line input, and stereo amplifier for you to connect to your own speakers. A line out enables you to connect to your own Hi-Fi system or active speakers, and an integrated encoder allows you to play and save your vinyl to a USB Thumb drive or SD card. In keeping with this style of product it has a "smoked Perspex" lid, a remote control and even a clock/alarm! Mains powered.

- USB/microSD Slot for Recording & Playback
- Preset FM Radio
- CD/MP3 Player
- Casette Player
- Belt Drive Pitch Adjustment
- 33/45 Speed Selection
- Includes Infrared Remote` Control

NEW

SPECIFICATIONS	GE4107
Speaker Output	2 x 5WRMS
Line Out	L/R RCA
AUX Input	3.5mm Stereo Socket
Headphone Output	3.5mm Stereo Socket
Remote Control Battery	1 x CR2025 (Included)
Weight	4.3kg
Dimensions	448(W) x 164(H) x 375(D)mm

	Cat.	Qty 1+
	GE4107	$289.00

Spare Stylus	Cat.	Qty 1+	Qty 3+	Qty 6+
Pack of 2 - Suits GE4107 and Others	GE4137	$10.90	$9.90	$8.90

CARBON FIBRE RECORD BRUSH

Carbon fibre brushes are the best way to remove surface grit before playing vinyl records.

- Millions of microscopic hairs get into every groove and when you're finished
- Built-in handle has a cleaning bar to get rid of the dust from the bristles
- Essential for every turntable owner

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE4051	$18.90	$16.90	$14.90

Turntable Accessories

VIDEO, AUDIO & CD DRIVE BELT

A selection of high quality drive belts for repairs and maintenance of a wide variety of video and audio equipment. The pack contains 25 of the most popular sizes in a combination of square and flat belts. There are 21 square belts ranging from 23mm to 120mm and 4 flat belts covering 56mm to 93mm. Belts lean more towards video use.

D	T	W	D	T	W	D	T	W	D	T	W
23	S	1.7	40	S	1.2	70	S	1.2	93	F	10.0
23	S	2.0	45	S	2.0	71	S	1.2	97	S	1.2
24	S	2.0	56	F	8.0	72	S	1.2	98	S	2.4
24	S	1.2	60	S	1.0	76	F	6.0	114	S	1.8
26	S	1.9	68	S	1.2	83	S	2.0	120	S	1.2
26	S	1.8	70	S	1.0	91	F	5.8	120	S	2.3
32	S	1.2									

D = Inside dia in mm, T = Type (Square or Flat), W = Width in mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	HP0650	$24.90	$22.40	$19.90

PORTABLE RECORD CASE

So you have purchased a portable record player, and you're taking it to a friend's place for a night of retro entertainment. But how do you transport your vinyl collection? Fear no more! This solid case will securely store up to 30 x 11" records, so you don't have to worry about them being damaged. Great for transport, or just to keep them safe from sticky hands at home.

- Dimensions: 350(W) x 180(D) x 370(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE4101	$49.90	$44.90	$39.90

VINYL RECORD SYSTEM CLEANING KIT

Cleaning kit to easily and effectively clean your vinyl and stylus. Includes a 25ml stylus cleaning solution with anti-static stylus brush, anti-static microfibre cloth, and 100ml cleaning solution.

Box Contents:

1 x 25ml Stylus Cleaner with Brush
1 x 100ml Spray Cleaner
1 x Microfibre Cloth

NEW

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE4049	$16.90	$14.90	$13.90

Digitising Hardware

COMPOSITE AV TO USB VIDEO RECORDER

NEW

An easy way to convert your old analogue VHS tapes or DVD's to digital, without the need for a computer. Simply connect your VCR, DVD player or camcorder, power from a USB source, and press the one-click button on top to start converting to your USB flash drive. You can use the recorder to capture and share your gameplay from an old gaming console. There is also an HDMI output so you can watch what is recording on your TV, projector or monitor. Includes 1m RCA to RCA cable, USB power cable and USB mains power adaptor.

- Standalone, no computer needed
- Save directly to USB flash drive
- Composite and HDMI AV outputs
- One-button recording

SPECIFICATIONS	AC1790
Video Format	AVI
Recording Time	9.3MB (Per Minute), 0.56GB (Per Hour)

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1790	$119.00	$106.90	$94.90

ANALOGUE AUDIO TO DIGITAL MP3 CONVERTER

Easily convert your older vinyl records, cassette tapes, or any other audio source to digital MP3! Automatic track separation makes conversion and cataloguing a breeze. Simply install your SD card or USB flash drive, and you're ready to go. 3.5mm stereo and RCA inputs available, as well as 3.5mm stereo output for monitoring. Includes infrared remote control, 3.5mm audio cable, USB power cable and USB mains power adaptor.

- Bit Rate: 128kbps
- Audio Format: MP3
- USB/SD Capacity: 32GB
- Power: 5VDC, 1A

SPECIFICATIONS	GE4103
Records To	USB Drive, SD Card
Audio Input	3.5mm Stereo, 2 x RCA
Audio Output	3.5mm Stereo
Converter Format	MP3
Bit Rate	128Kbps
Power	5VDC @ 50mA
Weight	54g
Dimensions	66(W) x 62(D) x 23(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
USB Music Digitizer	GE4103	$56.90	$50.90	$44.90

Convert Video Tape To Digital

USB 2.0 ECONOMY DVD MAKER

An easy to connect USB to video adaptor which allows you to capture high quality video and audio through a USB 2.0 interface to burn your own high definition DVD/VCDs. It's capable of real time recording MPEG 4/2/1 video formats. The compact size makes it ideal to take along anywhere. Operating couldn't be easier; with the one touch grabber; simply push the button to start and push again to stop.

- Windows 8.1, 8, 7, Vista, XP, 2000

SPECIFICATIONS	XC4991
Interface	USB 2.0
Video Input	Composite (RCA), S-Video
Audio Input	RCA Audio in
Capture Video Sources	VHS, V8, Hi-8, etc
Video & Video Formats	DVD, SVCD, VCD, MPEG-4, AVI, WMV, WMA, MP3
Image Formats	JPEG, BMP
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000
Dimensions	52(L) x 50(W) x 27(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
PC Only	XC4991	$49.90	$44.90	$39.90

USB 2.0 DVD MAKER

Turn your aging collection of VHS and Betamax video tapes into new video productions or record live video straight to your DVD or CD burner. This powerful video recording and editing system will help you make your own DVD movies or family documentaries and uses the latest MPEG-4 compression to produce high quality real-time recordings from practically any AV source. The powerful editing software lets you add colour and transition effects as well as sound tracks and titles to your work. Send copies of your completed movies on DVD or VDC to your friends and family and keep them up-to-date with the goings-on at home. The USB interface makes connection a snap so you can be making movies and editing them in no time. Powered by the USB connection.

- Supports USB 1.1 & 2.0 Plug-and-Play
- Resolution up to 720 x 576 @25 fps (PAL) or 720 x 480 @30fps (NTSC)
- Composite Video input via RCA connector or S-Video mini-DIN
- Stereo audio input via RCA connectors
- Audio output via 3.5mm stereo plug
- Capture box: 35(W) x 95(D) x 15(H)mm
- Compatible with Windows 10, 8.1, 8, 7, Vista, XP

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
PC	XC4867	$79.90	$71.90	$63.90

CD & Cassette Players

PORTABLE CD PLAYER WITH ANTI-SHOCK

Put that huge CD collection to good use with this portable CD player. These days, many Hi-Fi systems come with an iPod® dock but no CD player! This one doubles as a personal music device (if you dare take it running), or can serve as a CD player for your larger Hi-Fi system via the Aux input it probably has. If you do want to take it with you, a huge 60-second anti-skip protection is built-in to keep the tunes playing. Powered by 2 x AA batteries (not included) for portability or it can also be powered by a 4.5VDC plugpack (not supplied). Includes a set of earphones on a 1.15m cable.

- 60-second anti-skip protection
- Battery-powered
- Earphones included

SPECIFICATIONS	GE4085
Batteries	2 x AA (not included)
Anti-Shock Protection	60 secs
Dimensions	135(W) x 150(D) x 27(H)mm
Weight	195g (CD player excluding batteries), 13g (earphones)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE4085	$74.90	$67.40	$59.90

CASSETTE TO MP3 CONVERTER

A totally self-contained cassette to MP3 converter. Simply insert your cassette tape, and your favourite USB drive, and you're ready to go! You can manually partition songs, or let the intelligent circuitry figure it out for you. No computer required, and it couldn't be easier! It's battery powered (2 x AA required) or power from a USB port (cable included). A set of earphones are included so you can listen while it's working too.

SPECIFICATIONS	GE4102
Power	2 x AA Batteries or Included USB Cable
Run Time	1 Hour
Audio	Stero L/R
Bit Rate	128kbps
Weight	145g (Excluding batteries)
Dimensions	116(W) x 94(H) x 35(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE4102	$79.90	$71.90	$63.90

PORTABLE CASSETTE PLAYER

Dust off your classic cassette tape collection and reminisce with this portable cassette player. Listen in private with the supplied headphones and features three function keys, auto-stop and stereo headphone socket.

- Auto Stop
- Detachable Belt Clip

1 YEAR WARRANTY

SPECIFICATIONS	GE4104
Batteries	2 x AA (Not Included)
Weight	136g (Excluding Batteries)
Dimensions	118(H) x 102(W) x x 41(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE4104	$33.90	$29.90	$26.90

Home Entertainment

PASSIVE BOOKSHELF SPEAKERS

These stunning bookshelf speakers are well built for your listening pleasure. Ideal for replacing your old failed speakers, or making use of the additional speaker channels already on your Hi-Fi receiver to pipe music in another room. They're compact but powerful, and sound great. At just over 2kg each, you can easily sit them on a shelf, or grab some speaker brackets to mount them on a wall. Spring loaded speaker terminals.

Sold as a pair.

SPECIFICATIONS	CS2459
Power Handing	2 x 10W
Nominal Impedance	4Ω
Frequency Range	70-20kHz
Weight	2.3kg (each)
Dimensions	150(W) x 190(D) x 230(H)mm (each)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 10+
	CS2459	$94.90	$84.90	$75.90

automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

For next day delivery, or Click and Collect, see page 5

Home Entertainment

PORTABLE LED PROJECTOR WITH HDMI & USB

NEW

1 YEAR WARRANTY

Take your screen anywhere, and project on any flat surface while out travelling or camping. Virtually universal thanks to HDMI, it accepts up to full HD 1080p inputs and automatically downscales to the output resolution. Completely portable and self-contained with an internal rechargeable battery with up to 1.5 hours of battery life that can even be recharged by a power bank. Also features USB and microSD card inputs to plug a flash drive, hard drive or microSD card in to watch your favourite movies on. Projection distance is up to 2m, which will provide around a 1.5m viewable size. Includes infrared remote control, tripod mount, AV cable and mains power adaptor.

- HDMI & AV Inputs
- USB & microSD Card Connectivity
- Supports Videos, Images, Music & Text
- Rechargeable Battery
- In-Built Speaker & Audio Output
- Outputs: 1 x 3.5mm Aux Jack
- Lumens: 600 (20 ANSI)
- LED Lifespan: Up to 30,000 Hours

Supported Files:

Video: AVI, MKV, MP4, MPG, WMV, MOV, FLV, RMVB
Image: JPEG, BMP, PNG
Audio: MP3, MP4A, WAV, AAC, WMA
Text: TXT

SPECIFICATIONS	AP4005
Resolution	240p (320 x 240)
Supported Resolution	1080p (1920 x 1080)
Speaker	1W
USB Capacity	Up to 128GB (Flash Drive) Up to 1TB (Hard Drive
microSD Capacity	Up to 128GB
Projection Distance	Up to 2m
Battery	Li-ion 7.4V, 1300mA
Power	12VDC, 1.5A 5VDC, 2A (Micro B USB)
Power Consumption	500mA

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AP4005	$149.00	$133.90	$118.90

LED PROJECTOR WITH HDMI & USB

1 YEAR WARRANTY

This is a highly portable LED projector. By using a solid-state LED, it's more durable and won't require bulb replacement like traditional units. You can connect a HDMI, Composite, or VGA video source, or playback directly from a SD card. The projector displays at 800 x 480 pixel resolution, and will automatically downsample HD sources to suit. Ideal for office presentations, or the kids' playroom. Projection distance is up to 3m, which will provide around a 120˚ viewable size. A full featured remote control is included too.

SPECIFICATIONS	AP4003
Resolution	800 x 480 pixels
Projections Distance	1 - 3m
Projection Size	32 - 120"
Aspect Ratio	16:9 or 4:3
Keystone Correction	+/-15˚
Input	HDMI / Composite / VGA or SD Card
Battery	Remote requires 2 x AAA batteries (not included)
Dimensions	208(L) x 165(W) x 70(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
50 ANSI Lumens	AP4003	$209.00	$187.90	$166.90

Set Top Boxes

12VDC 1080P HD SET TOP BOX WITH USB RECORDING

NEW

1 YEAR WARRANTY

Designed for use in caravans, motorhomes, boats or homes where mains power is not available. Watch all the common free-to-air channels in high definition, and if you're not there to watch your favourite shows, use an external USB hard drive of your choice to record the programmes. When you're away from digital reception you can use the built-in media player to play your movie, music or photo collection stored on your hard drive. It features HDMI and Composite (RCA) video outputs, as well as Analogue (RCA) and Coaxial Digital audio outputs to suit whatever options you have with your current equipment. The electronic programme guide enables you to view all available stations, and customise them into a group. The full-featured remote control offers total control over viewing, record/playback, and configuration from the comfort of your couch.

- 12VDC Powered
- Supports up to 1080p HD
- Includes Remote Control

Not available in New Zealand

SPECIFICATIONS	XC4937
Video Outputs	HDMI, Composite (RCA Video)
Audio Outputs	Analogue RCA, Digital Coaxial/SPDIF
Video Decoding	MPEG-2 SD/HD(MP@ML and MP@HL), MPEG-4 H.264/AVC SD/HS, DIVX 4.X~5.X, AVID, VOB, MOV, MKV
Picture Decoding	HPEG, BMP, PNG, Motion JEG
Audio Decoding	MPEG-1 and MPEG-2 layer 1 & 11, and HE-AAC digital audio
Aspect Ratio	4:3, 16:9
Power Input	12VDC
Power Consumption	<8W
Standby Consumption	1W
Dimensions	135(W) x 34(H) x 90(D)mm

Not available in New Zealand

1080P HD SET TOP BOX WITH USB RECORDING

NEW

1 YEAR WARRANTY

Watch all the common free-to-air channels in high definition. If you're not home to watch your favourite shows, use a USB flash drive or hard drive of your choice to record the programs. The full-featured remote control offers total control over viewing, record/playback, and configuration from the comfort of your couch. It features Composite and HDMI video outputs, as well as Digital (Coaxial) and Analogue (RCA) outputs, to suit whatever options you have with your current equipment. The electronic program guide enables you to view all available stations, and customise them into a group. If you have photos or video on your computer that you would like to watch, simply load them onto your USB device, insert it into the SetTop Box and you have full playback control using the built-in multimedia player!

- HDMI & Composite Outputs
- USB Recording
- Remote Control
- 75Ω Belling-Lee Antenna Pass-Through

Not available in New Zealand

SPECIFICATIONS	XC4935
Video Outputs	HDMI, Composite (RCA Video)
Audio Outputs	Analogue RCA, Digital Coaxial/SPDIF
USB Support	FAT32/NTFS
Video Decoder Format	MPEG-4 H.264/AVC, MPEG-2 MP@ML/HL, DIVX 4.x~5.x
Supported Media	JPEG, BMP, PNG, Motion JPG, AVI, VOB, MOV, MKV
Power	240V, 8W

Not available in New Zealand

DAB Radios

PORTABLE DAB+ & FM RADIO

A modern looking pocket-sized radio that receives DAB+ digital radio and conventional FM for when you are outside digital broadcast areas, The negative dot-matrix LCD screen is easy to read during the day, and has a backlight for night time use. The FM band has a PLL synthesized receiver for a high level of stability so it stays locked to the station, and supports the Radio Data Stream (RDS) function for receiving digital information. Other features include 20 radio presets, clock with auto time update, alarm and sleep mode. There's also a 3.5mm headphone output socket for private listening or to connect to an amplifier or active speakers. Requires 3 x AAA batteries or a 4.5VDC mains power adaptor.

- 20 Radio Presets
- Negative Dot-Matrix LCD Display with Backlight
- Clock and Alarm with Sleep mode
- 3.5mm Stereo Headphone Socket

Rechargeable battery sold separately
SB2291

Note: not available in New Zealand

SPECIFICATIONS	AR1690
Battery	Requires 3 x AAA (Not included)
Battery Life	Up to 8hrs Approx. (50% Volume)
Frequency	DAB+: 174-240MHz FM: 87.5-108MHz
Output	1WRMS
Dimensions	125(L) x 73(H) x 30(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Not available in New Zealand				
Rechargeable Battery to Suit	SB2291	$10.90	$9.90	$8.90

DAB+ & FM RADIO WITH BLUETOOTH® TECHNOLOGY

This modern looking radio can entertain you at home or on the go. It receives DAB+ digital radio and conventional FM for when you are outside digital broadcast areas. You can also plug in your microSD card or USB Thumbdrive to play your favourite MP3 tracks, connect a device using the auxiliary input, or pair via Bluetooth to play music from your smartphone or computer. The dot-matrix LCD screen is easy to read during the day, and has a backlight for night time use. Three large push buttons on the front control volume and power, and eight pushbuttons on top are used for setting up the radio or for setting alarms. Other features include 20 radio presets and a 3.5mm headphone output socket for private listening or to connect to an amplifier or active speakers. The radio is powered using the supplied rechargeable battery, which can be charged using the included USB cable.

- Streaming via Bluetooth
- MP3 playback from USB and microSD storage
- Power from mains or battery
- 3Inch 8Ω Dynamic Speaker

Note: not available in New Zealand

Bluetooth®

1 YEAR WARRANTY

SPECIFICATIONS	AR1692
Rechargeable Battery	5V, 1500mAh
Speaker	3", 8Ω Dynamic
Power Output	1.4W RMS
Dimensions	190(W) x 118(H) x 70(D)mm

Not available in New Zealand

DAB+ OUTDOOR ANTENNA

If you live on the fringe or an area where the digital radio reception isn't the best, then this antenna will help ensure uninterrupted listening time. Supplied with an 8.5m long cable, which is pre-terminated with an F-type and PAL plug to make installation a breeze. Suits digital radios with antenna input.

SPECIFICATIONS	LT3159
Frequency	VHF 174-230MHz
Impedance	75Ω.
Polarisation	Horizontal
VSWR	VHF <2.4
Gain	3dB (Approx.)
Dimensions	900(L) x 700(W) x 50(D)mm

1 YEAR WARRANTY

Note: Not available in New Zealand

Not available in New Zealand

Portable Radios

9 BAND FM/MW/SW POCKET RADIO

A powerful little radio capable of receiving FM/MW/SW1-7 bands. Features full clock functions, an alarm, antenna, and a 3.5mm headphone jack for personal listening. Also features a handy fold-out stand so it can sit on a table at a comfortable viewing angle.

- Not PLL (Phase-Locked Loop)

1 YEAR WARRANTY

SPECIFICATIONS	AR1736
FM	88 - 108MHz
MW	530 - 1600kHz
SW	5.80 - 17.90KHz
Connections	3.5mm headphone jack
Power	3 AAA batteries or 3VDC plugpack (available separately)
Dimensions	110(L) x 20(H) x 24(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1736	$34.90	$31.90	$27.90

AM/FM/SW RECHARGEABLE RADIO WITH MP3

A tri-band portable AM/FM/SW radio with built-in MP3 player & digital clock. Listen to local AM/FM stations or international programs on the SW band. Connect a USB drive or microSD card and listen to MP3 tracks. Blue backlit LCD for easy use in the dark. Built-in rechargeable Li-ion battery and charges via supplied USB cable. 3.5mm headphone jack for private listening. Supports USB flash drive and microSD card (32GB max). Not PLL (Phase-Locked Loop).

1 YEAR WARRANTY

SPECIFICATIONS	AR1721
FM	70-108MHz
MW	522-1710kHz
SW	5.95-21.85MHz
Connections	3.5mm headphone jack
Power	Built-in rechareable Li-on battery
Dimensions	114(L) x 70(H) x 25(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1721	$42.90	$38.60	$34.30

PORTABLE AM/FM TRANSISTOR RADIO

Virtually unchanged for decades. This transistor radio provides AM/FM tuning in a compact package. It features a telescopic antenna, manual tuning dial, and physical frequency indicator. A 1-inch loudspeaker provides sound, or connect your favourite earphones.

- AM/FM selection
- Physical frequency dial
- Telescopic antenna
- Fits in the front pocket of your shirt

1 YEAR WARRANTY

SPECIFICATIONS	AR1458
Batteries	2 x AAA (not included)
Weight	60g
Dimensions	89(H) x 55(W) x 19(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
AR1458	$18.90	$17.00	$15.10

For next day delivery, or Click and Collect, see page 5

World Band Radios

WORLD BAND AM/FM/SW/LW/AIR PLL RADIO

A PLL world band radio loaded with a great list of features but easy to operate. Select from 5 available bands, FM, AM (MW, with 9 or 10k step), SW, LW and AIR bands. Tune to a desired frequency using the fast or slow scroll function and store up to 500 of your favourite radio stations. Includes carry case.

- Sleep function up to 120 minutes
- Manual, auto, or preset station search
- 3.5mm headphones output

SPECIFICATIONS	AC1733
AM (MW Coverage)	522 - 1620 kHz(9k), 520 - 1710 kHz(10k)
FM Coverage	87.5 - 108.0MHz
SW Coverage	2300 - 26100Hz
LW Coverage	153 - 279kHz
AIR Coverage	118 - 137MHz
Power	Requires 2 x AA batteries
Dimensions	120(W) x 75(H) x 30(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR1733	$99.90	$89.90	$79.90

COMPACT WORLD BAND PLL RADIO WITH SSB

This is a very compact world band radio, covering the most popular frequencies. It features rapid digital tuning, loads of memory presets, and an easy to read display. Single Sideband Modulation (SSB) is used to obtain current reports, so is ideal for the keen fisherman or boating enthusiast too. The large internal speaker provides clear audio, or you can connect your favourite set of headphones instead. Powerful enough to receive what you want, and compact enough to take wherever you want.

SPECIFICATIONS	AR1780
FM Coverage	87.5 - 108MHz
MW Coverage	522 - 1620kHz / 520 - 1710kHz
SW Coverage	2300 - 26,100kHz
LW Coverage	153 - 279kHz
AIR Coverage	118 - 137kHz
Batteries	4 x AA (Not included)
Weight	253g (Excluding batteries)
Dimensions	150(W) x 95(H) x 30(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR1780	$149.00	$133.90	$118.90

tech talk — What Is World Band?

World Band Radios are those radios that are capable of tuning into radio programs generated by, say the British BBC, Radio Australia (Australian ABC Radio programs), Voice of America, Radio Vatican, etc. These programs are transmitted on a regular weekly basis in any one 24 hour period. It is generally preferable to use 24 hour time, linked to GMT (Greenwich Mean Time) which is the time it is in London (UK) so that confusion is eliminated as when the program is broadcast. There are dozens and dozens of programs from countries all over the world in the special languages of these countries. For example if you are an Australian citizen but originally from Greece, you can tune into stations that enable you to keep your knowledge of the language up to date. The stations typically have a lot of local news which you would normally not hear. The World Band stations are generally broadcast in several frequencies at the same time, typically between about 1.8MHz & 29.00 MHz, especially between 7 & 21MHz. You can look up the broadcasting details on Google etc. Phase-Locked Loop (PLL) is a circuit configuration invented over 80 years ago. Originally the circuit was so complex that it only appeared in expensive radios. With modern microchip technology, the PLL got a lot cheaper. The benefits of PLL technology enabled receivers to remain on a station frequency with great accuracy. The radio circuit did not 'drift.' PLL technology, though still not cheap, is a hallmark of quality short wave radios and that's why Jaycar specifies them.

WORLD BAND AM/FM/SW PLL RADIO

Truly an ideal radio for the casual user and the enthusiast. It offers FM, MW(AM) stations and three Short Wave (SW) stations which range from 1,711kHz to 29,999kHz for receiving international broadcasts. The analogue tuning is assisted with a digital display and a tuning step, select fast for scrolling through the frequency or slow for that fine adjustment. Uses a Phase-Locked Loop (PLL) to ensure a stable reception. This unit is built with high performance IC's and MOSFET's that provide high sensitivity, strong anti-interference, low background noise and distortion. Includes a large back lit LCD displaying the frequency, clock, battery level and signal strength indictor. Other features includes AM RF gain, AM bandwidth switch, internal/external antenna switch, Local/DX antenna switch, IF out, total of 50 presets - 10 presets for each band (AM/FM/SW1/SW2/SW3), alarm function, snooze button, button lock, and the list goes on. Power options are 6 x AA (not included) used with supplied 6 x D size battery adaptors, 6 x D batteries (not included) or the supplied 9V PSU. Supplied with a carry strap.

- Large back lit LCD
- RF gain control
- Bass & treble controls
- Key lock
- IF output
- Line in and out
- Earphone socket
- Speaker 5W/4 Ω
- Local/DX antenna switch
- External antenna connection
- Internal full range speaker
- Mains or battery operated

SPECIFICATIONS	AC1748
FM	87.5-108.0MHz
MW(AM)	522-1620kHz (9kHz); 520-1710kHz (10kHz)
SW	1,711-10010kHz; 9,990-20,010kHz; 19,990-29,999kHz
Dimensions	310(W) x 195(H) x 100(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
World Band AM/FM/SW PLL Radio	AR1748	$219.00	$196.90	$174.90

WORLD BAND AM/FM/SW/AIR PLL SYNTHESISED RECEIVER WITH SSB

Ideal for a novice ham radio licensor, keen fisherman or even just the outdoors type, this radio has everything you will ever need in a radio with the added function of single-sideband modulation (SSB). SSB is used to obtain current weather reports, so it is perfect to take to sea to avoid changing weather conditions. However with great FM and AM coverage and battery operation it is also perfect for camping, BBQs and thanks to its world/local time selection clock and alarm, it can even be used as an alarm clock! Additional features include auto tuning saving, 500 memories and keypad direct entry. This is certainly a radio of many uses! Power options are 6 x AA (not included) used with supplied 6 x D size battery adaptors, 6 x D batteries (not included) or the supplied 9V PSU. Supplied with a carry strap.

- Large back lit LCD
- RF gain control
- Bass & treble controls
- Key lock
- IF output
- Line in and out
- Earphone socket
- Speaker 5W/4 Ω
- Local/DX antenna switch
- External antenna connection
- Internal full range speaker
- Mains or battery operated

HAS SSB!

SPECIFICATIONS	AR1945
FM	87.5-108.0MHz
MW(AM)	522-1620kHz (9kHz); 520-1710kHz (10kHz)
AIR/SW	118 - 137MHz / 1799-29,999kHz
Dimensions	310(W) x 195(H) x 100(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
World Band Radio	AR1945	$269.00	$239.00	$209.00

SHORTWAVE PASSIVE REEL ANTENNA TO SUIT AR1748 & AR1945

Designed for use with our shortwave radios (model AR1748 and AR1945) this reel antenna features two clips that attach to the telescopic rod antenna on the radio to boost reception. It's great for general reception improvement at home, when camping or on the road. When not in use just reel in the clips and it becomes a compact disc shaped package.

- Dimensions: 102(W) x 74(H) x 20(D)
- Max cable length: 7m

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR1947	$24.90	$22.40	$19.90

Audio Converters

COAXIAL/TOSLINK TO TOSLINK/COAXIAL DIGITAL AUDIO CONVERTER

This is a bi-directional converter for changing digital audio signals. Connect your coaxial or optical source, and you can connect optical or coaxial (or both) outputs! This unique design means it can also be used as a signal repeater - great for long digital audio connections. USB powered (mains power supply included).

1 YEAR WARRANTY

SPECIFICATIONS	AC1592
Input	1 x Coaxial RCA / 1 x TOSLINK (optical)
Output	1 x Coaxial RCA / 1 x TOSLINK (optical)
Power Consumption (Max)	1W
Dimensions	66(W) x 20(H) x 5(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1592	$64.90	$57.90	$51.90

DIGITAL TO ANALOGUE AUDIO CONVERTER

Converts your digital signal into analogue (RCA) stereo audio. Accepts either TOSLINK (optical) or digital coaxial, for compatibility with all digital sources.

1 YEAR WARRANTY

- High quality sampling rate
- TOSLINK and coaxial input

SPECIFICATIONS	AC1715
Sampling Rate	48kHz
Power	5VDC@1A (Mains adaptor included)
Weight	70g
Dimensions	63(W) x 42(D) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1715	$64.90	$57.90	$51.90

DIGITAL TO ANALOGUE CONVERTER WITH 4-WAY SWITCHER

NEW

1 YEAR WARRANTY

Manually switch between four digital audio signals and simultaneously output to TOSLINK, stereo analogue, and a headphone output. Use it to switch the audio from your DVD, Blu-ray, Playstation, Xbox, HD player, PC, etc. to your amplifier or active speakers. Supports common audio formats including PCM, LPCM, DTS, Dolby-AC3, THX, and HDCD, and uses 192kHz/24bit DAC to minimise any audio loss. It automatically identifies the digital signal format and remembers the previous settings if the power is turned off. Status LEDs on each input flash when no audio is detected or when there is an input data error. Over-voltage protection helps prevent any damage caused by connecting signals unmatched to the device.

- 192kHz/24bit DAC
- Support LPCM digital audio converted to analogue audio output
- Automatic identification of input signal format
- Last state memory when powered off
- Over-voltage protection
- 3.5mm earphone socket with 30mW output
- No loss of quality

SPECIFICATIONS	AC1723
Inputs	2 x COAXIAL, 2 x SPDIF/TOSLINK
Outputs	1 x SPDIF/TOSLINK, 1 x R/L RCA, 1 x 3.5mm Stereo
Support Audio Format	PCM, LPCM, DTS, Dolby-AC3, THX, HDCD
DAC Sample Frequency Range	32~192kHz
DAC Bit Rate Range	16-24 Bit

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1723	$119.00	$106.90	$94.90

AC3/DTS DIGITAL AUDIO TO ANALOGUE CONVERTER

Convert digital audio sources that use Dolby Digital AC3 Pro logic, DTS, PCM or other formats into 2.0 channel analogue audio output. This converter will accept input via TOSLINK/SPDIF or 1 x coaxial and output to 2 x RCA (L/R) and 3.5mm 2 channel analogue.

1 YEAR WARRANTY

SPECIFICATIONS	AC1658
Input	1 x TOSLINK/SPDIF, 1 x Coaxial
Output	2 x RCA (L/R), 1 x 3.5mm AUX
Snr	120dB
Degree Of Separation	85dB
Frequency Response	20Hz - 20kHz
Dimensions	72(D) x 55(W) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1658	$139.00	$124.90	$110.90

ANALOGUE TO DIGITAL AUDIO CONVERTER

Converts your analogue (RCA) stereo audio into digital signal. Outputs as either TOSLINK (optical) or digital coaxial, for compatibility with all digital inputs.

1 YEAR WARRANTY

- High quality sampling rate
- TOSLINK and coaxial output

SPECIFICATIONS	AC1716
Sampling Rate	48kHz
Power	5VDC@1A (Mains adaptor included)
Weight	70g
Dimensions	63(W) x 42(D) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1716	$69.90	$62.90	$55.90

GROUND LOOP ISOLATOR (STEREO) RCA

Used to eliminate ground loop problems (usually manifested as a low frequency hum) in audio connections. Earthing brown ground wires sometimes helps even more.

- Secure to a solid object with cable ties
- Very neat!

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA3084	$12.90	$11.30	$10.30

GALVANIC ISOLATION AUDIO FILTER

When certain audio devices are interconnected, it's possible to end up with what is referred to as a ground loop. You may not know what that is, but it results in a rather annoying "hum" coming from the speakers. In a vehicle it can also change pitch with engine speed. A galvanic isolation filter can be used to eliminate this electrical condition, removing the hum from the audio so you can enjoy the music properly! No power required, it simply connects inline with the line-level RCA connections, and you're ready to go.

Features:

- Gold-plated RCA sockets
- Can be wall-mounted
- No power required

SPECIFICATIONS	AA3075
Input Ports	2 x RCA Sockets
Output Ports	2 x RCA Sockets
Input/Output Impedance	12kΩ
Frequency Range	20Hz to 30kHz
Operating Temperature	0°C - 40°C
Weight	135g
Dimensions	90(W) x 86(D) x 30(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Galvanic Isolation Audio Filter	AA3075	$56.90	$50.90	$44.90

For next day delivery, or Click and Collect, see page 5

Amplifiers - Stereo

2 X 18WRMS STEREO AMPLIFIER

This is a simple, fairly bullet-proof 18W/channel transistor amp and it's surprisingly loud! It is ideal as a small office or workshop PA amp in churches, community halls etc. It is protected from accidental speaker wiring shorts and if abused will simply shut down and reset after it has cooled off. It has a front panel microphone input, bass & treble controls as well as a master volume control.

- A suitable microphone for this unit is AM4190
- Low cost mains powered

SPECIFICATIONS	AA0472
Power	240VAC 50Hz 150mA
Output	2 x 18WRMS/4Ω
Response	50-18kHz + 3dB
Total Harmonic Distortion	0.08% @ 1W
S/N	60dB
Operating Temperature	0-50oC
Microphone Input	60mV @ 1k
Dimensions	170 x 77 x 157mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 18WRMS	AA0472	$49.90	$44.90	$39.90

2 X 15 WRMS PORTABLE STEREO AMPLIFIER

Sometimes mains power isn't available, or perhaps you're a busker and want to drive some PA speakers. This amplifier gives you the best of both worlds. It gives you 15WRMS into two 4" speaker outputs, which can be run from the mains adaptor supplied, or just 4 x AA batteries! Suits 4 and 8-ohm speakers for versatility. Compact and portable.

Features:

- Speaker de-thump circuit
- Intelligent short-circuit / over-temp protection
- Connects to any passive 4/8" speakers
- Accepts standard audio line output from any sound system

SPECIFICATIONS	AA0504
Power Output	15 watts RMS x 2 into 4Ω
Total Harmonic Distortion	<0.04% @ 9W <10% @ 15W
Minimum Speaker Impedance	4Ω
Signal-to-Noise Ratio	103 dB, A weighted
Input Impedance	2kΩ ±5%
Frequency Response	20-20,000 Hz
Channel Separation	95 dB
Efficiency	>88% @ 10W, 8ohm
Batteries	8 x AA (not included)
Power	12VDC @ 2A
Weight	175g (excluding batteries)
Dimensions	152(W) x 100(D) x 52(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA0504	$79.90	$71.90	$63.90

2 X 20WRMS COMPACT STEREO AMPLIFIER

A very compact stereo amplifier, delivering 20WRMS to each channel. It's an ideal solution for powering speakers in an entertaining area, the garage, or anywhere you like. Gold plated RCA inputs are provided, with gold plated binding posts for speaker connections. A mains adaptor is included, but the 12-15VDC power requirement for the unit itself means it's also suitable for use in a vehicle, or on a boat. A power switch and volume control knob on the front give you the control you need, with nothing you don't.

SPECIFICATIONS	AA0518
Amplifier Output	2 x 20WRMS
Audio Input	2 x RCA line level
Audio Output	Gold plated binding posts
Power	12-15VDC (Mains adaptor included)
Dimensions	92(W) x 150(D) x 43(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 20WRMS	AA0518	$119.00	$106.90	$94.90

2 X 25WRMS COMPACT STEREO AMPLIFIER

A compact amplifier that can deliver up to 25WRMS of power per channel. It is ideal for home, office or a small workshop. Connect audio to the stereo RCA or 3.5mm line input, connect your speakers to the push down spring terminals, connect power and you're in business. There is also a 6.5mm microphone input on the front, making it ideal for a small office or workshop PA system. Controls include mic volume, music volume, bass and treble.

- 18VAC 2.2A power supply included

SPECIFICATIONS	AA0486
Power Output	2 x 25WRMS
Output Impedance	4 to 8Ω
Freq Response	5Hz to 65kHz, +/-3dB
S/N Ratio	72dB
Dimensions	216(W) x 65(H) x 150(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 25WRMS	AA0486	$159.00	$142.90	$126.90

2 X 20WRMS STEREO AMPLIFIER

This is an ultra-compact stereo amplifier that packs some punch. With two 20W channels, it'll provide more than enough power for outdoor speakers, ceiling speakers, or even larger Hi-Fi speakers. There are three sets of auxiliary inputs with a rotary selection dial on the front. A volume dial gives you overall output control, while balance, bass, and treble controls allow further customisation of the sound. Simply plug in your input, connect your 8-16Ω speakers to the spring-loaded speaker terminals, and you're ready to go! Mains powered.

SPECIFICATIONS	AA0517
Power	240VAC @ 50Hz
Output Power	2 x 20 Watts
Output Impedance	8-16Ω (per channel)
Weight	2.6kg
Power Cable Length	1m
Dimensions	172(W) x 223(D) x 75(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 20WRMS	AA0517	$169.00	$151.90	$134.90

2 X 120 WRMS STEREO AMPLIFIER WITH REMOTE CONTROL

Providing plenty of crisp audio power with two channels at 120WRMS each, this amplifier is ideal for powering a second set of speakers elsewhere in your home or office. With dual line audio input, you can connect your favourite audio sources. It also provides audio line back out, so you can install it inline with your current equipment too. A small headphone amplifier (and output socket) is conveniently provided, and heavy duty speaker terminals provide cable / banana plug connection. A large volume dial and black look is at home amongst any decor, and it includes a remote control so you don't have to walk over to the unit every time you want to use it.

Features:

- 6.5mm headphone output
- Two line-level inputs
- RCA stereo line output

1 YEAR WARRANTY

SPECIFICATIONS	AA0520
Output Power	120W + 120WRMS
Power Input	220VAC @ 2A
Audio Input	Dual stereo RCA sockets
Audio Output	1 x Stereo RCA sockets
Speaker Output	2 x Stereo speaker cable receivers/banana plugs
Weight	3.2kg
Dimensions	250(W) x 275(D) x 90(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 120 WRMS Stereo Amplifier	AA0520	$289.00	$259.00	$229.00

Amplifiers - Stereo CONTINUED

STEREO AMPLIFIER WALL PLATE WITH BLUETOOTH®

A fantastic solution that provides a powerful 15WRMS (per channel @ 4Ω) class-D stereo amplifier in a wall plate. Connect your favourite audio source via the aux input or pair via Bluetooth®, and use the onboard volume control to regulate overall level. The wiring for the speakers is behind the plate, allowing you to wire it directly to wall-mounted speakers elsewhere. This is perfect for a bathroom, a waiting room, or any room you want to be able to pipe a little music to. Includes 12VDC mains power supply.

1 YEAR WARRANTY

Bluetooth

SPECIFICATIONS	AA0519
Audio Source	3.5mm stereo aux or Bluetooth
Bluetooth® Version	3.0 EDR Compliant
Bluetooth® Distance	10m
Amplifier Type	Class-D
Output Power	2 x 15WRS @ 4Ω
Power Input	12VDC @ 2A (mains adaptor included)
Dimensions	70(W) x 113(H) x 25(D)mm (Including Volume Knob)

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 15WRMS	AA0519	$119.00	$106.90	$94.90

2 X 15WRMS COMPACT STEREO AMPLIFIER WITH BLUETOOTH® TECHNOLOGY

NEW

Similar to our popular AA0518 amplifier, with the ability to stream music via Bluetooth. This compact stereo amplifier sounds fantastic and is ideal for powering speakers in an entertainment area, workplace, etc. Input audio through the gold-plated RCA line inputs or stream via Bluetooth from a Smartphone, computer, or Bluetooth enabled media player. Features quality gold plated binding posts for speaker connection, and safety features include short circuit, thermal, and overload protection. The enclosure is made from extruded aluminium and has a thick black anodised faceplate. A power switch and volume control knob on the front give you the control you need, with nothing you don't. A 12V 3A mains adaptor is included, but the 12-15VDC power requirement for the unit itself means it's also suitable for use in a vehicle or on a boat.

- Stream via Bluetooth
- Compact
- 12V powered

Bluetooth

SPECIFICATIONS	AA0522
Power Output	2 x 15WRMS (4 Ohms)
Output Impedance	4 to 8Ω
Freq Response	20Hz to 20kHz
S/N Ratio	102dB
Channel Separation	95dB
Efficiency	95%
Dynamic Range	>100dB
Audio Input	2 x RCA line level
Bluetooth	V4.2
Power	12V 3A (Mains adaptor included)
Dimensions	150(L) x 86(W) x 51(H)mm, 300g

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 15WRMS	AA0522	$139.00	$124.90	$110.90

Speaker Swiches

TWO WAY STEREO SPEAKER SWITCH

This is a simple manual speaker switch so you can easily select between two different sets of speakers from the one stereo system. You can select from set A, set B, or A+B. Designed for use with 8-ohm speakers (the standard for HiFi speakers), you should check that your stereo can support 4-ohm speakers, since it will provide a 4-ohm load when using the A+B selection. Rated at 10WRMS per channel, plenty for indoor/outdoor speakers, ceiling speakers, and other applications.

Features:

- Non-shorting speaker contacts
- Select A, B, or A+B speaker sets
- No power required

SPECIFICATIONS	AC1400
Speaker Impedance Recommended	A: 8Ω B: 8Ω A+B: 4Ω
Weight	102g
Dimensions	112(W) x 69(H) x 46(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1400	$16.90	$14.90	$13.90

HIGH POWER TWO WAY STEREO SPEAKER SWITCH

Perfect for controlling two sets of speakers from the one audio source for your indoor/outdoor area, separate rooms, and more. Simple operation with pushbuttons for both A and B sets so you can easily switch them on or off independently. Easy installation with screw terminals for speaker wires. No power required, suitable for systems up to 50WRMS per speaker.

- Pushbutton switches
- Aesthetic wall plate design
- Simple installation

Note: As speakers are connected in parallel in A+B mode the amplifier must be rated for half the rated speaker impedance.

SPECIFICATIONS	AC1401
Maximum	50W RMS/100W per Channel
Switch Configuration	A or B or A+B
Minimum Impedence	4Ω based on 8Ω per speaker
Dimensions	115(H) x 70(W) x 72(D)mm (Including Switches)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1401	$22.90	$20.90	$17.90

4 WAY STEREO SPEAKER SWITCH

1 YEAR WARRANTY

Allows up to four pairs of speakers to be connected to a single entertainment unit or amplifier Each pair of speakers may be individually turned on or off in any combiniations via the push-button selectors.

- Dimensions: 176(L) x 110(W) x 48(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1618	$36.90	$33.20	$29.50

6 WAY SPEAKER SELECTOR SWITCH

This speaker selector box is perfect for anyone with a multi-room speaker system that they want to run from a master source. This selector box allows you to connect up to 6 pairs of speakers to your amplifier, and select any number of those pairs to play your music simultaneously. The outputs are all impedance matched so you won't ever damage the output stage of your amplifier.

- Solid metal construction
- Compatible with amplifiers up to 150 watts per channel
- Terminals accept up to 14-gauge wire
- Built-in protection circuit
- Dimensions: 285(W) x 180(D) x 55(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	AC1683	$159.00	$142.90	$126.90

SPEAKER POLARITY TESTER WITH TONE GENERATOR

Ideal for troubleshooting and testing an audio system and installation. It offers an output range of 0-8 volts at a variable 13Hz to 10kHz tone for setting system levels, checking speaker crossover points, verifying connections and general trouble-shooting. It features a 9V speaker popper for visually testing speaker connection polarity. Connections can be made via included RCA or alligator clips. It also features an auto shut-off for extended battery life.

- Tone generator, speaker polarity and RCA cable tester
- Output Range: 0V-8V
- 9V speaker popper
- RCA or alligator clips
- Power: Requires 9V Battery
- Dimensions: 100(H) x 65(W) x 23(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0414	$39.90	$35.90	$31.90

For next day delivery, or Click and Collect, see page 5

AV Selectors & Switchers

2 WAY AV SELECTOR SWITCH

Switch between two composite video and stereo audio sources.

- Easy push-button operation

SPECIFICATIONS	AC1650
Channel Separation	60dB @ 1kHz
Cross-Talk	70dB @ 1kHz
Dimensions	135(W) x 50(D) x 32(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	AC1650	$15.90	$13.70	$12.30

3 WAY AUDIO SELECTOR

Many audio amplifiers don't provide enough inputs for all your components. Solve that problem easily with this 3-way audio switcher. It takes up to three stereo RCA inputs and provides a single stereo RCA output. Easy-to-use pushbutton front panel.

- 3 stereo pairs of RCA inputs
- Dimensions: 133(W) x 42(H) x 85(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Way	AC1655	$19.90	$17.90	$15.90

4 WAY AV SELECTOR

Connect up to four AV devices such as DVD players, VCRs or gaming consoles with a single output to your TV and switch between them as required.

- Inputs can be either composite or S-video
- Easy-to-use pushbutton front panel
- Composite and S-video inputs
- Dimensions: 190(W) x 112(D) x 47(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	AC1652	$29.90	$26.90	$23.70

3 WAY TOSLINK SWITCH WITH IR

Allows you to connect up to three TOSLINK sources to one TOSLINK input. Source selection is done via the supplied remote control, or the pushbutton on the side. An infrared receiver is also included so you can tuck the switch away with your equipment and still use the remote. The switch also features state-recall, which means your selected input is maintained even after the power has been switched off. Compatible with LPCM2.0, DTS, and Dolby AC3.

SPECIFICATIONS	AC1594
Supported Audio Formats	LPCM2.0 / DTS / Dolby AC3
Peak Wavelength	650nm
Max Baud Rate	16Mbps
Dimensions	60(W) x 54(D) x 20(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Way	AC1594	$48.90	$44.00	$39.10

3-WAY OPTICAL TOSLINK SPLITTER

NEW

Distribute your digital audio connection to multiple sources such as sound bars, headphones or your home theatre system. Allows a combined optical cable length of 40m with no audio quality loss. Audio format support for LPCM2.0, DTS and Dolby AC-3 with signal retiming for perfectly synced audio. USB powered and features voltage overload protection. Includes USB power cable.

SPECIFICATIONS	AC1590
Inputs	1 x TOSLINK (Optical)
Outputs	3 x TOSLINK (Optical)
Frequency	96KHz
Baud Rate	16Mbps
Audio	LPCM 2.0, DTS, Dolby AC-3
Supported Cable Length	40m (Total)
Power	5VDC, 500mA (USB Mini B)
Power Consumption	200mA (Max)
Dimensions	60(W) x 54(D) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1590	$39.90	$35.90	$31.90

AV Amplifiers & Pre-Amplifiers

BATTERY OPERATED PHONO PRE-AMP

A simple 9V battery powered preamp. Used for connecting products with magnetic pick-ups such as turntables to an amp.

- 2 RCA inputs & 2 RCA out
- 1 x 9V battery required

SPECIFICATIONS	AC1649
Rated Input Level	3mV
Max Input Level	38mV
Input Impendance	50KΩ at 1,000Hz
Output Level	1.8VRMS
Output Impedance	50KΩ
S/N ratio	50dB
Dimensions	72(W) x 91(L) x 28(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1649	$31.90	$28.70	$25.50

USB RECORDING PHONOGRAPH PRE-AMP

This fantastic device allows you to use your existing record player to record those fantastic vinyl tracks to USB! It also provides a preamp output to feed to your amplifier which may not have a "PHONO" input, when you're not recording to USB. It works natively with both Windows® and MacOS® systems, and is effectively plug-n-play. Then you can record using your computer's audio capture utilities! Audio sampling is up to an impressive 48kHz so you're sure you're capturing everything in high quality.

- Digitise Records using PC or Mac®
- High quality preamp
- Native operating system support

SPECIFICATIONS	AC1593
Recording	2 Channels
Sampling Rates	8kHz, 11.025kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, and 48kHz
Compatability	Windows® & Mac®
Power	Via USB cable or power supply (not supplied)
USB	1.1
Dimensions	128(W) x 30(H) x 70(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1593	$56.90	$50.90	$44.90

PHONO STEREO PREAMPLIFIER

Vinyl records have become all the rage again but you may encounter a couple of issues which are addressed by this unit. Firstly, vinyl records are manufactured in a way that requires frequency equalisation of the turntable output to make them sound right. Secondly, if your amplifier doesn't have a phono input then you won't be able to listen to your records. This unit provides the necessary frequency equalisation and increases the signal level so that it can be fed to your line-level amplifier. There is a second set of inputs for a CD player or other device. There is a front panel switch to choose between input devices and a volume control on the front panel to adjust the output level as necessary as your turntables cartridge may provide a lower or higher output than expected. All connections are made with the popular RCA connectors. Power is provided by an included mains adapter.

Features:

- 2 x stereo RCA inputs
- Volume control
- Stereo RCA output
- Function can be set to mix or IND
- Screw mount holes
- RIAA equalisation for phone input

SPECIFICATIONS	AC1591
Power	12VDC @ 0.5A
Input Impedance	47KΩ
Output Impedance	100Ω
Phono Amplitude Gain	40dB (@ 1KHz)
AUX Amplitude Gain	6 dB
Maximum Input	50mVpp
Output Level	5Vpp
Frequency Response	20 Hz to 20KHz
Signal to Noise Ratio	70dB
Dimensions	145(W) x 96(D) x 31(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Phono Stereo Preamplifier	AC1591	$69.90	$62.90	$55.90

in-ceiling 2 way speakers

1 YEAR WARRANTY

These ceiling speakers are a 2 way speaker design giving excellent audio quality compared to traditional PA speakers. Combining a coaxial woofer with dome tweeter they are available in three sizes to cover a variety of domestic and commercial applications. Two of the models also have adjustable tweeter mounts making them ideal when used in a home theatre setup by allowing you to direct high frequencies towards the centre of a room. The flush mount design and fold out retaining clamps allow them to be easily installed in new or existing ceilings, and the matte white finish blends in with most ceiling colours.

- Sold as a pair
- 8 ohm impedance
- Wired
- **CAN BE EASILY PAINTED BLACK WITH A CAN OF ACRYLIC SPRAY**

SPECIFICATIONS	CS2451
Woofer	5.25" polymer cone
Tweeter	25mm silk dome
Tweeter Mount	Fixed
Rated Power	30WRMS
Frequency Range	200-Hz - 18kHz
Sensitivity	87dB
Minimum Mounting Thickness	6mm
Dimensions	A 200, B N/A, C 170, D 60mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
5.25"	CS2451	$74.90	$66.90	$59.90

SPECIFICATIONS	CS2453
Woofer	6.5" polymer cone
Tweeter	25mm silk dome
Tweeter Mount	Swivel
Rated Power	40WRMS
Frequency Range	180Hz - 18kHz
Sensitivity	88dB
Minimum Mounting Thickness	8mm
Dimensions	A 230, B N/A, C 198, D 85mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
6.5"	CS2453	$94.90	$84.90	$75.90

SPECIFICATIONS	CS2455
Woofer	8" polymer coner
Tweeter	25mm silk dome
Tweeter Mount	Swivel
Rated Power	50WRMS
Frequency Range	120Hz - 18kHz
Sensitivity	90dB
Minimum Mounting Thickness	10mm
Dimensions	A 260, B N/A, C 228, D 85mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
8"	CS2455	$119.00	$106.90	$94.90

Speaker Systems

ABS 2 WAY INDOOR/OUTDOOR SPEAKERS

1 YEAR WARRANTY

Attractive in design, these 2 way speakers are very versatile. Suitable for indoor and outdoor (covered areas) applications, they can be mounted to a wall or ceiling and can be rotated 180 degrees for perfect sound projection. Each has a polypropylene woofer and dome tweeter. Ideal for conference rooms, auditoriums, lecture halls or out on the patio.

- Sold as a pair
- Wired
- **CAN BE EASILY PAINTED BLACK WITH A CAN OF ACRYLIC SPRAY**

4" SPEAKERS
CS2475

5" SPEAKERS
CS2476

6.5" SPEAKERS
CS2477

8" SPEAKERS
CS2478

SPECIFICATIONS	CS2475	CS2476
Power Handling	25WRMS	30WRMS
Frequency Response	120Hz - 20kHz	100Hz - 20kHz
Nominal Response	8 Ω	8 Ω
Cabinet Size	210(H) x 140(W) x 120(D)	245(H) x 185(W) x 168(D)mm
	CS2477	**CS2478**
Power Handling	40WRMS	50WRMS
Frequency Response	80Hz - 20kHz	50Hz- 20kHz
Nominal Response	8 Ω	8 Ω
Cabinet Size	296(H) x 217(W) x 190(D)mm	345(H) x 285(W) x 220(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 10+
4"	CS2475	$89.90	$80.90	$71.90
5"	CS2476	$109.00	$97.90	$86.90
6.5"	CS2477	$159.00	$142.90	$126.90
8"	CS2478	$229.00	$199.00	$179.00

Wall Plate

60 WATT SPEAKER ATTENUATOR WALL PLATE

A useful device for locally controlling the volume of speakers, from an amplifier located elsewhere. The connections are hidden behind a standard sized wall plate, making it perfect for ceiling or patio speakers. Also very useful in restaurants, health centres, or anywhere you may be running music to multiple areas but require localised volume. It caters for stereo (i.e., left and right, or channel one and channel two) up to 60WRMS. The dial provides 6-different volume levels from Off to Full Volume. No power required.

Features:

- Lowest setting turns off
- Highest setting direct through
- 6-step volume control

SPECIFICATIONS	AC1751
Speaker Power Rating	60WRMS, 20Hz - 20kHz
Speaker Impedance	4, 8, or 16ohm Speakers
Switch	0dB (straight through), -6dB, -12dB, -18dB, -24dB, Off (no connect)
Mounting	Standard electrical wall plate
Weight	109g
Dimensions	115(W) x 74(H) x 50(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	AC1751	$49.90	$44.90	$39.90

Related Products:

speaker ceiling grilles

Available in 4" and 8".

	Cat.	Qty 1+	Qty 5+	Qty 10+
4"	AX3550	$5.90	$5.20	$4.70
8"	AX3560	$10.90	$9.90	$8.90

SPEAKER ATTENUATOR - 100W

A neat and functional solution for controlling the sound level in your multi-room audio speaker installation. The attenuator has 12 step level and fits in a single gang wallplate mount. It allows connection of up to 8 pairs of speakers to one stereo amplifier while maintaining correct impedance match between amp and speakers.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC1665	$71.90	$64.50	$57.50

For next day delivery, or Click and Collect, see page 5

paper cone woofers:

These woofers are excellent for replacement or for new speaker design construction. Not only are they price competitive & perform very well, but they look fantastic! The concave treated paper cone matched with rubber surround provides smooth overall response. Housed in strong steel frame baskets, high power magnet & voice coils, these drivers will produce massive quantities of clean bass output for any musical application.

1 YEAR WARRANTY

4" CW2190

5" CW2192

6.5" CW2194

8" CW2196

10" CW2198

12" CW2199

SPECIFICATIONS	CW2190	CW2192	CW2194	CW2196	CW2198	CW2199
Power Handling	27WRMS	50WRMS	60WRMS	90WRMS	225WRMS	225WRMS
Normal Impedance	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
Frequency Response	70Hz - 7kHz	70Hz - 7kHz	44Hz - 7kHz	38Hz - 4.5kHz	40Hz - 1kHz	28 - 550Hz
Sensitivity	88dB SPL@1W, 1m	88dB SPL@1W, 1m	89dB SPL@1W, 1m	89dB SPL@1W, 1m	90dB SPL@1W, 1m	90dB SPL@1W, 1m
Re	6 Ω	6 Ω	6 Ω	6 Ω	5.41 Ω	5 Ω
Qms	1.73	1.40	2.02	1.46	1.01	3.46
Qes	0.67	0.72	0.57	0.43	0.47	0.40
Qts	0.48	0.47	0.44	0.33	0.32	0.36
Vas	5 litres	7.3 litres	19 litres	42-45 litres	80 litres	135 litres
Fs	59.9Hz	67.6Hz	49.5Hz	28.1Hz	59.8Hz	23.1Hz

	A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
4"	116	109	93	65	CW2190	$29.90	$26.90	$23.70
5"	145	136	120	56	CW2192	$36.90	$33.20	$29.50
6.5"	178	168	145	77	CW2194	$41.90	$37.90	$33.40
8"	220	212	182	92	CW2196	$47.90	$42.90	$38.40
10"	258	245	235	110	CW2198	$79.90	$71.90	$63.90
12"	311	294	281	142	CW2199	$99.90	$89.90	$79.90

tweeters:

One unit is magnetically screened for applications where the device may be near a CRT screen, Home Theatre for example. The Titanium dome unit has quite a high power rating for a dome tweeter. Both are ferrofluid filled which keeps the voice coils cool and adds to reliability. We are delighted with these products.

25MM TITANIUM DOME TWEETER

This tweeter features a titanium dome with a phase shield which provides a more controlled high frequency roll-off. It produces very crisp & clear high frequencies.

SPECIFICATIONS	CT2007
Power Handling	50WRMS
Nominal Impedance	8 Ω
Frequency Response	2 - 20kHz
Sensitivity	91dB SPL @1W, 1m

1 YEAR WARRANTY

A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
104	94	70	27	CT2007	$24.90	$22.30	$19.70

RSN1005 PIEZO TWEETER

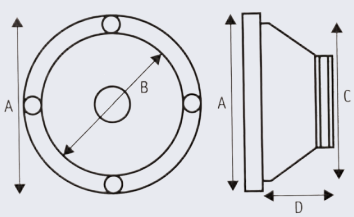
Does not require a crossover it's built in and is perfect for use for general PA applications where long throw is required.

SPECIFICATIONS	CT1930
Power Handling	100WRMS
Nominal Impedance	8 Ω
Frequency Response	1 - 20kHz
Sensitivity	93dB @1W, 0.5m

2 YEAR WARRANTY

A	B	C	D(MM)	Cat.	Qty 1+	Qty 4+	Qty 10+
85	101	75	70	CT1930	$15.90	$14.30	$12.70

SPEAKER DIMENSIONS



A = From one side to the other

B = Mounting Holes - Diagonal

C = Cut Out in millimetres

D = Depth

find out more in store

Our staff offer friendly and helpful service. We're here to help.

Speaker / Equipment Cabinet Fittings

HOOK & LOOP TAPE

Ideal for holding grilles on speaker cabinets. One side is glued or stapled to the box & the other to the grille. The grille then sticks to the box.

	Cat.	Qty 1+	Qty 5+	Qty 10+
300mm long	CF2763	$3.90	$3.10	$2.70

SPRAY-ON CONTACT ADHESIVE

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet on speaker cabinets etc.

- Cannot be sent by air freight or post

MADE IN

	Cat.	Qty 1+	Qty 4+	Qty 10+
400g	NA1504	$21.90	$19.70	$17.30

FLARED SPEAKER BOX PORT

This port is flared to minimise air turbulence. It can be press fitted to the cabinet then sealed with caulk or silastic.

- Inner Dia: 58mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
120mm	CX2688	$5.90	$5.20	$4.70

650GSM ACRYLIC SPEAKER DAMPING MATERIAL

Used to line speaker boxes for standing wave/resonance absorption. Also very effective for making acoustic treatment like bass traps in sound rooms and studios.

- High density

	Cat.	Qty 1+	Qty 5+	Qty 10+
700(W) x 1000(L)mm	AX3694	$15.00	$13.30	$11.90

GRILL CLOTH

High quality, acoustically transparent grill cloth is ideal for protecting expensive drivers and allowing all of the sound to get through.

- Black in colour
- Supplied in a 1.5 x 1m pack

	Cat.	Qty 1+	Qty 5+	Qty 10+
	CF2752	$21.00	$18.70	$16.70

tech talk Decibels

Contrary to much popular usage, the decibel (dB) is not actually a unit of any particular quantity, but rather an expression of the ratio between two quantities, such as, power, voltage, current, acoustic pressure. Many sensors, including our own ears, respond to stimuli in a logarithmic fashion, that is, an increase of 10dB results in a doubling of loudness. This allows a huge range of intensities. As the dB compares the logarithmic quantities, it agrees with our perceptive comparisons. To calculate the ratio, in dB, of two power levels, P1 and P2, the formula is: dB = 10 log (P1/P2). If the quantities are voltages, currents or sound pressure levels, X1 and X2, the formula becomes: dB = 20 log (X1/X2). If the quantities X1 and X2 are both measured in the same impedances, their dB ratio will be numerically equal to the dB ratio of their equivalent powers. If their impedances Z1 and Z2 are unequal, the dB ratio of their power can be found from: dB = 20 log (X1/X2) + 10 log (Z2/Z1). Negative dB ratios will result when P1 (or X1) is less than P2 (or X2), while positive values indicate that P1 (or X1) is greater than P2 (or X2).

COMBINATION BUTYL/FOAM SUPER SOUND DEADENER

Combining both the sound deadening properties of butyl material, and insulating properties of honeycomb foam, this is an easy single application solution for complete sound deadening and isolation that also offers thermal insulation. Consisting of a layer of our AX3687 Butyl Based sound deadener and a 3.0mm thick layer of honeycomb foam (similar to our AX3662), lining the cabin of your vehicle with these sound deadening sheets will give you drastically reduced road noise, less panel vibration and a cooler cabin temperature. Application is easy with the self adhesive backing and the ability to mould to the shape of the panel. Ideal for door skins, head linings, door cards and under bonnet insulation.

- Thickness: 4.5mm (1.5mm butyl, 3.0mm foam)
- Temperature range: -10 - 100°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
660 x 330mm	AX3689	$36.90	$33.20	$29.50

BUTYL BASED SOUND DEADENING MATERIAL

Give your vibrating buzz-box a luxury car ride with this butyl-based, foil backed sound deadening material. By adding weight to the metal panels of your car, such as door skins, boot lids, quarter panels, etc., you can stop nasty vibrations, reduce road noise, and give your doors and boot a nice solid "thud" when they shut. Each sheet is self-adhesive, and can be easily moulded, cut and stuck onto virtually any metal surface of your vehicle's body, giving you a pleasant, quiet and comfortable ride. Combine with our AX3662 Sound Absorbing foam to add thermal insulation and eliminate low frequency humming from big exhaust systems for an even more comfortable vehicle interior.

- Thickness: 1.5mm
- Temperature range: -10 - 110°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
900 x 330mm	AX3687	$36.90	$33.20	$29.50

SOUND DAMPENING ROLLER

Use this heavy duty roller to apply sound deadening material anywhere.

Features:

- Resin roller
- Wooden handle
- Metal roller frame with hex screws holding roller

SPECIFICATIONS	AX3668
Weight	140g
Dimensions	180(D) x 62(W) x 35(H)mm
Roller	50(W) x 35(H)mm
Handle	120(L)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Sound Dampening Roller	AX3668	$16.90	$14.90	$13.90

Wayne Starick likes to

think. possible.

"3D printing is my favourite technology. 3D printers will use a wide range of materials in the future. This means the end of warehouses holding spares. Instead I would pay for an STL file, print the part that I broke on my bike/car/fridge or whatever. Saving time and money for all!"

product data:

We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

For next day delivery, or Click and Collect, see page 5

All Purpose Replacement Speakers

27MM (1.1")
- 8Ω
- 250mW

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3002	$3.90	$3.10	$2.70

40MM (1.5")
- 8Ω
- 250mW

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3004	$4.50	$3.70	$3.30

57MM (2.25")
- 8Ω
- 250mW

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3000	$4.80	$4.30	$3.80

76MM (3")
- 8Ω
- 1W

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3006	$5.50	$4.40	$3.90

50 X 90MM (2" X 3.5")
- 8Ω
- 5W

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3025	$8.90	$7.90	$6.90

100MM (4")
- 4Ω
- 2W

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3008	$5.90	$4.90	$4.40

125MM (5")
- 4Ω
- 6W

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3007	$9.90	$8.90	$7.90

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Visit Our Online Store: www.jaycar.co.nz

SHIELDED 8 OHM FULL RANGE SPEAKERS

Full range speakers suitable for use in surround speakers in home theatre system, computer multimedia speakers and portable speaker designs. It has advanced alloy cone design coated with special damping material. See website for full specifications, frequency curves and technical drawings.

- Magnetically screened
- 4 x screw mounting holes
- Nominal Impedance (Z)(O): 8
- DC (Re)(O): 6.5

1"
- Dimensions(mm): 36(L) x 36(W) x 13.1(D)
- 1W

GENERAL DATA	AS3030
Nominal Power Handling (Pnom)(W)	1
Max Power Handling (Pmax)(W)	2
Sensitivity (2.83v/1m)(dB)	79
Weight (M)(Kg)	0.03
VOICE COIL AND MAGNET PARAMETERS	
VC Diameter (mm)	19
VC Length (H)(mm)	3.4
VC Former	CCAW
VC Frame	Kapton
Magnet Former	Neodymium
Force Factor (BL)(N/A)	2.3
Gap Height (He)(mm)	1.5
Linear Excursion (Xmax)(mm)	0.95
T-S PARAMETERS	
Suspension Compliance (Cms)(uM/N)	626
Mechanical Q (Qms)	3.9
Electrical Q (Qes)	0.814
Total Q (Qts)	0.674
Moving Mass (Mms)(g)	056
Effective Piston Area (Sd)(m2)	0.0005
Equivalent Air Volume (Vas)(L)	0.04
Resonance Frequency (Fs)(Hz)	270

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3030	$14.90	$13.90	$11.90

2"
- Dimensions(mm): 53(L) x 53(W) x 30.5(D)
- 10W

GENERAL DATA	AS3032
Nominal Power Handling (Pnom)(W)	10
Max Power Handling (Pmax)(W)	20
Sensitivity (2.83v/1m)(dB)	78
Weight (M)(Kg)	0.12
VOICE COIL AND MAGNET PARAMETERS	
VC Diameter (mm)	25
VC Length (H)(mm)	6
VC Former	CCAW
VC Frame	Kapton
Magnet Former	Neodymium
Force Factor (BL)(N/A)	2.2
Gap Height (He)(mm)	3
Linear Excursion (Xmax)(mm)	1.5
T-S PARAMETERS	
Suspension Compliance (Cms)(uM/N)	356
Mechanical Q (Qms)	4.6
Electrical Q (Qes)	2.2
Total Q (Qts)	1.56
Moving Mass (Mms)(g)	1.26
Effective Piston Area (Sd)(m2)	0.0013
Equivalent Air Volume (Vas)(L)	0.2
Resonance Frequency (Fs)(Hz)	260

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3032	$19.90	$17.90	$15.90

3"
- Dimensions(mm): 78(L) x 78(W) x 53(D)
- 15W

GENERAL DATA	AS3034
Nominal Power Handling (Pnom)(W)	15
Max Power Handling (Pmax)(W)	30
Sensitivity (2.83v/1m)(dB)	82
Weight (M)(Kg)	0.53
VOICE COIL AND MAGNET PARAMETERS	
VC Diameter (mm)	20
VC Length (H)(mm)	9
VC Former	Kapton
VC Frame	CCAW
Magnet Former	Ferrite
Force Factor (BL)(N/A)	3.06
Gap Height (He)(mm)	3
Linear Excursion (Xmax)(mm)	3
T-S PARAMETERS	
Suspension Compliance (Cms)(uM/N)	920
Mechanical Q (Qms)	3.75
Electrical Q (Qes)	1.15
Total Q (Qts)	0.88
Moving Mass (Mms)(g)	2.6
Effective Piston Area (Sd)(m2)	0.003
Equivalent Air Volume (Vas)(L)	1.19
Resonance Frequency (Fs)(Hz)	100

Cat.	Qty 1+	Qty 4+	Qty 10+
AS3034	$22.90	$20.90	$17.90

audio leads:

All the leads shown on this page are packaged in attractive hanging storage blister display packs except where indicated.

• **BRIGHT NICKEL PLATED CONDUCTORS AND METAL BODIES**

5 PIN DIN PLUG TO 5 PIN DIN PLUG

WA7000

3.5MM MONO PLUG TO 3.5MM MONO PLUG

WA7006

2.5MM STEREO PLUG TO 3.5MM STEREO PLUG

WA7004

3.5MM STEREO PLUG TO 3.5MM STEREO PLUG

WA7004/05

SLIM 3.5MM STEREO LEAD

WA7500

3.5MM STEREO PLUG TO 3.5MM STEREO SOCKET

WA7010

SLIM 3.5MM STEREO PLUG TO 2 X 3.5MM SOCKET

WA7504

3.5MM STEREO PLUG TO 2 X RCA PLUGS

WA7014/17

SLIM 3.5MM STEREO PLUG TO 2 X RCA PLUG LEAD

WA7502

3.5MM STEREO PLUG TO 2 X RCA SOCKETS

WA7016

3.5MM STEREO SOCKET TO 2 X RCA PLUGS

WA7018

6.5MM MONO PLUG TO 6.5MM MONO R/A PLUG

WA7024

6.5MM MONO PLUG TO 6.5MM MONO SOCKET

WA7030

6.5MM MONO PLUG TO 3 PIN XLR SOCKET

WA7040

3 PIN XLR TYPE PLUG TO 3 PIN XLR SOCKET

WA7041/43

RCA PLUG TO RCA PLUG

WA7050

RCA PLUG TO 2 X RCA PLUGS

WA7054

2 X RCA PLUGS TO 2 X RCA SOCKETS

WA7070/74

RCA PLUG TO 2 X RCA SOCKETS

WA7056

1 X RCA SOCKET TO 2 X RCA PLUGS

WA7058

Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Pin DIN plug	5 Pin DIN Plug	1.5m	Good	WA7000	$8.90	$7.90	$6.90
Mono 3.5 Plug	Mono 3.5 Plug	1.5m	Good	WA7006	$5.90	$5.20	$4.70
Stereo 2.5 Plug	Stereo 3.5 Plug	1.5m	Good	WA7004	$5.90	$5.20	$4.70
Stereo3.5 Plug	Stereo 3.5 Plug	0.5m	Good	WA7007	$3.90	$3.50	$3.10
Stereo 3.5 Plug	Stereo 3.5 Plug	1.5m	Good	WA7008	$4.90	$4.40	$3.90
Stereo 3.5 Plug	Stereo 3.5 Plug	3.0m	Good	WA7009	$10.50	$8.90	$7.90
Stereo 3.5 Plug	Stereo 3.5 Plug	5.0m	Good	WA7005	$11.90	$10.70	$9.50
Stereo 3.5 Plug	Stereo 3.5 Plug	2.0m Slim	Good	WA7500	$12.90	$11.30	$10.30
Stereo 3.5 Plug	Stereo 3.5 Socket	3.0m Curly	Good	WA7010	$8.90	$7.90	$6.90
Stereo 3.5 Plug	Stereo 3.5 Socket	0.2m Slim	Good	WA7011	$11.90	$10.70	$9.50
Stereo 3.5 Plug	2 x Stereo 3.5 Sockets	3.0m Curly	Good	WA7504	$12.90	$11.30	$10.30
Stereo 3.5 Plug	RCA x Plug	1.5m	Good	WA7014	$7.90	$6.90	$5.90
Stereo 3.5 Plug	RCA x Plug	3.0m	Good	WA7015	$10.90	$9.50	$8.50
Stereo 3.5 Plug	RCA x 2 Plug	5.0m	Good	WA7017	$11.90	$10.70	$9.50
Stereo 3.5 Plug	RCA x 2 Plug	2.0m Slim	Good	WA7502	$17.90	$16.10	$14.30
Stereo 3.5 Plug	RCA x 2 Socket	300mm	Good	WA7016	$6.90	$5.70	$5.20
Stereo 3.5 Socket	RCA x 2 Plug	300mm	Good	WA7018	$6.90	$5.90	$5.50
Mono 6.5 Plug	Mono 6.5 R/A	3.0m	Good	WA7024	$8.90	$7.90	$6.90
Mono 6.5 Plug	Mono 6.5 Socket	5.0m	Good	WA7030	$10.90	$9.50	$8.50
Mono 6.5 Plug	XLR 3 Pin Socket	6.0m	Good	WA7040	$24.90	$22.40	$19.90
XLR 3 Pin	XLR 3 Pin Socket	2.0m	Best	WA7041	$15.90	$14.30	$12.70
XLR 3 Pin	XLR 3 Pin Socket	6.0m	Best	WA7042	$24.90	$22.40	$19.90
XLR 3 Pin	XLR 3 Pin Socket	10.0m	Best	WA7043	$36.90	$33.20	$29.50
RCA Plug	RCA Plug	1.5m	Good	WA7050	$7.90	$7.20	$6.50
RCA Plug	RCA x 2 Plug	1.5m	Good	WA7054	$7.90	$7.20	$6.50
RCA Plug x 2 Plug	RCA x 2 Socket	1.5m	Good	WA7070	$7.90	$6.90	$5.90
RCA Plug x 2 Plug	RCA x 2 Socket	3.0m	Good	WA7072	$11.90	$10.70	$9.50
RCA Plug x 2 Plug	RCA x 2 Socket	5.0m	Good	WA7074	$15.90	$14.30	$12.70
RCA Plug	RCA x 2 Socket	300mm	Good	WA7056	$5.90	$5.20	$4.70
RCA Socket	RCA x 2 Plug	300mm	Good	WA7058	$5.90	$5.20	$4.70

For next day delivery, or Click and Collect, see page 5

Audio Leads

2 X RCA PLUGS TO 2 X RCA PLUGS

WA7062/68

PIGGYBACK 2 X RCA TO RCA LEAD

WA7090/91

RCA PLUG TO RCA SOCKET

WA7084

RCA PLUG TO 3.5MM MONO PLUG

WA7088

4 X RCA PLUGS TO 4 X RCA PLUGS

WA7078

SPEAKON AUDIO LEADS

WA7100/02

6.5MM MONO TO SPEAKON CABLE

WA7108

SPEAKON LEAD EXTENDER

PA3689

SPEAKON CABLES
The standard for speaker conections in PA & sound reinforcement. Buy the cable & connectors and put them together, or buy these excellent ready-made cables.

Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA x 2 Plug	RCA x 2 Plug	1.5m	Good	WA7062	$8.90	$7.90	$6.90
RCA x 2 Plug	RCA x 2 Plug	3.0m	Good	WA7064	$10.90	$9.50	$8.50
RCA x 2 Plug	RCA x 2 Plug	5.0m	Good	WA7066	$13.90	$12.50	$11.10
RCA x 2 Plug	RCA x 2 Plug	10.0m	Good	WA7068	$16.90	$14.90	$13.30
RCA x 2 Piggyback	RCA x 2 Plug	1.5m	Good	WA7090	$11.90	$10.70	$9.50
RCA x 2 Piggyback	RCA x 2 Plug	3.0m	Good	WA7091	$15.90	$14.30	$12.70
RCA Plug	RCA Socket	3.0m	Good	WA7084	$7.90	$6.90	$5.90
RCA Plug	Mono 3.5 Plug	1.5m	Good	WA7088	$5.90	$5.20	$4.70
RCA x 4 Plug	RCA x 4 Plug	1.5m	Good	WA7078	$10.50	$8.90	$7.90
Speakon Plug	Speakon Plug	5.0m	Good	WA7100	$36.90	$33.20	$29.50
Speakon Plug	Speakon Plug	10.m	Good	WA7102	$55.90	$50.30	$44.70
Speakon Plug	6.5mm Plug	3.0m	Good	WA7108	$21.90	$19.70	$17.30
Speakon Socket Extender				PA3689	$15.90	$13.70	$12.30

Instrument Leads

CURLY INSTRUMENT EXTENSION LEAD 6.5MM STEREO PLUG TO SOCKET

WA7046

CURLY INSTRUMENT LEAD 6.5MM MONO PLUG TO PLUG

WA7026

INSTRUMENT LEAD 6.5MM STEREO PLUG TO PLUG

WQ7291

AMPHENOL INSTRUMENT CABLE

WQ7290

AMPHENOL BALANCED MICROPHONE CABLE

WQ7292/96

Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo 6.5mm Plug	Stereo 6.5mm Socket	6.0m Culy	Good	WA7046	$13.90	$12.50	$11.10
Mono 6.5mm Plug	Mono 6.5mm R/A Plug	6.0m Curly	Good	WA7026	$15.90	$14.30	$12.70
Mono 6.5mm Plug	Mono 6.5mm R/A Plug	6.0m	Best	WQ7290	$39.90	$35.90	$31.90
Stereo 6.5mm Plug	Stereo 6.5mm Plug	6.0m	Best	WQ7291	$39.90	$35.90	$31.90
XLR Plug	XLR Socket	6.0m	Best	WQ7292	$53.90	$48.40	$42.90
XLR Plug	XLR Socket	9.0m	Best	WQ7296	$56.90	$50.90	$44.90

Marie Gardiner likes to

think. possible.

"I think surveillance system will get better and easier I purchased this camera from jaycars Hamilton and have no problem with it at all my opinion I think this system is great"

addicted to social?
We're here to chat!

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instagram.com/jaycar_electronics
twitter.com/jaycarnz
youtube.com/user/JaycarVideo

Video Leads

3 X RCA PLUGS TO 3 X RCA PLUGS

WV7316/21

3.5MM 4 CONTACT PLUG TO 3 X RCA PLUGS

WV7345

S-VIDEO 4 PIN MINI DIN PLUG TO PLUG

WV7336

SCART PLUG TO 6 X RCA

WV7342

3 RCA PIGGYBACK PLUGS TO 3 X RCA PLUGS

WV7324

BNC PLUG TO BNC PLUG

WV7300

RCA PLUG TO RCA PLUG

WV7304/06

RCA PLUG TO BNC PLUG

WV7308

F LUG TO F PLUG

WV7386

F PLUG TO TV COAXIAL PLUG

WV7384/85

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If you have a technical friend or someone who may be just interested in some of the products we stock, tell them to email their address details to:

CATALOGUE DEPARTMENT - JAYCAR:

catalogue@jaycar.com

HIGH QUALITY F PLUG TO F PLUG

WV7390 - 96

BRIGHT NICKEL PLATED CONDUCTORS AND METAL BODIES

Use	Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
AV	RCA x 3 Plug	RCA x 3 Plug	1.5m	Good	WV7316	$10.90	$9.50	$8.50
AV	RCA x 3 Plug	RCA x 3 Plug	3.0m	Good	WV7318	$15.00	$13.30	$11.90
AV	RCA x 3 Plug	RCA x 3 Plug	5.0m	Good	WV7320	$17.90	$15.90	$14.30
AV	RCA x 3 Plug	RCA x 3 Plug	10.0m	Good	WV7321	$36.90	$33.20	$29.50
AV	3.5 (4 Pole) Plug	RCA x 3 Plug	1.5m	Good	WV7345	$15.90	$14.30	$12.70
AV	Scart plug	RCA x 6 Plug	1.5m	Good	WV7342	$15.90	$14.30	$12.70
AV	RCA x 3 Piggyback	RCA x 3 Plug	1.5m	Good	WV7324	$16.90	$14.90	$13.30
AV	RCA x 3 Piggybank	RCA x 3 Plug	3.0m	Good	WV7325	$19.90	$17.90	$15.90
Video	BNC Plug	BNC Plug	1.5m	Good	WV7300	$11.90	$10.70	$9.50
Video	RCA Plug	RCA Plug	1.5m	Good	WV7304	$8.90	$7.90	$6.90
Video	RCA Plug	RCA Plug	3.0m	Good	WV7306	$9.90	$8.50	$7.50
Video	BNC Plug	RCA Plug	1.5m	Good	WV7308	$9.90	$8.50	$7.50
Video	F Plug	F Plug	1.5m	Good	WV7386	$7.90	$7.10	$6.30
Video	F Plug	F Plug - White	1.5m	Good	WV7366	$7.90	$7.10	$6.30
Video	Coaxial Plug	F Plug	1.5m	Good	WV7384	$5.90	$5.20	$4.70
Video	Coaxial Plug	F Plug - White	1.5m	Good	WV7365	$6.90	$6.20	$5.50
Video	Coaxial Plug	F Plug	5.0m	Good	WV7385	$11.90	$10.70	$9.50
Video	F Plug	F Plug - RG-59	10m	Best	WV7450	$24.90	$22.40	$19.90
Video	F Plug	F Plug - RG-59	20m	Best	WV7452	$39.90	$35.90	$31.90
Video	F Plug	F Plug - RG6 Quad Shield	1.5m	Best	WV7390	$9.90	$8.90	$7.90
Video	F Plug	F Plug - RG6 Quad Shield	3.0m	Best	WV7392	$13.90	$12.90	$10.90
Video	F Plug	F Plug - RG6 Quad Shield	5.0m	Best	WV7394	$18.90	$16.90	$14.90
Video	F Plug	F Plug - RG6 Quad Shield	10m	Best	WV7396	$25.90	$22.90	$20.90

Cable Tester

ROADIES CABLE TESTER

Simply plug the cable under test and turn the rotary switch. The LED array gives you an instant go/no-go status of each conductor path in the cable. With bullet-proof all metal construction, it's ideally suited to the ruff and tumble world of rock 'n' roll, but is also suitable for any technician working with cables. Faster and much easier than a multimeter. Requires 1 x 9V battery. (use SB2423)

Tests the following cables:

- Speakon 4, 8P
- 1/4" mono & TRS
- DIN 3, 5, 7, 8P
- XLR 3, 5P
- Phono (RCA)
- USB
- RJ45
- Dimensions: 190(L) x 98(W) x 35(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA0405	$94.90	$84.90	$75.90

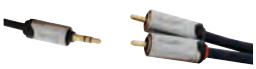
For next day delivery, or Click and Collect, see page 5

AV leads:

A premium range of audio video cables at the right price.
High performance non-migration interconnection cables utilising 99.96% pure OFC.

- 24 carat hard gold plated contacts
- 100% shielded metal bodied plugs
- Positive finger grip & moulded cable strain relief
- Recommended for digital or analogue signals
- Clean and clear image reproduction
- For home theatre, Hi-Fi , video, TV/VCR/editing, DVD, satellite and any application which deserves the absolute best in AV performance
- Will stand up to the quality of units that sell up to 4-5 times more elsewhere (apart from the expensive packaging!)

3.5MM STEREO PLUG TO 2 X RCA PLUGS



WQ7206/08

RCA PLUG TO RCA PLUG

WQ7221/22

RCA PLUG TO RCA PLUG

WQ7223/25

2 X RCA PLUGS TO 2 X RCA PLUGS

WQ7227/30

S-VIDEO 4 PIN MINI DIN PLUG TO PLUG

WQ7217/20

3.5MM 4 POLE PLUG TO PLUG AV LEAD

WV7349

3.5MM 4 POLE PLUG TO SOCKET LEAD

WV7347

3.5MM 4 POLE PLUG TO 2 X 3.5MM SOCKET LEAD

WA7020

3.5MM 4 POLE SOCKET TO 2 X 3.5MM

WA7022

VGA D15HD PLUG TO 3 X RGB PLUGS

WQ7259

Use	Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
Audio	Stereo 3.5 Plug	RCA x 2 Plug	1.5m	Best	WQ7206	$21.90	$19.30	$16.90
Audio	Stereo 3.5 Plug	RCA x 2 Plug	3.0m	Best	WQ7208	$22.90	$20.30	$17.90
Video	RCA Plug	RCA Plug	0.5m	Best	WQ7221	$13.90	$12.50	$11.10
Video	RCA Plug	RCA Plug	1.5m	Best	WQ7222	$15.90	$14.30	$12.70
Video	RCA Plug	RCA Plug	3.0m	Best	WQ7223	$17.90	$15.90	$14.30
Video	RCA Plug	RCA Plug	5.0m	Best	WQ7224	$21.90	$19.30	$16.90
Video	RCA Plug	RCA Plug	10.0m	Best	WQ7225	$31.90	$28.70	$25.50
Audio	RCA x 2 Plug	RCA x 2 Plug	0.5m	Best	WQ7227	$21.90	$19.70	$17.30
Audio	RCA x 2 Plug	RCA x 2 Plug	1.5m	Best	WQ7226	$22.90	$20.30	$17.90
Audio	RCA x 2 Plug	RCA x 2 Plug	3.0m	Best	WQ7228	$29.90	$26.90	$23.70
Audio	RCA x 2 Plug	RCA x 2 Plug	5.0m	Best	WQ7230	$36.90	$33.20	$29.50
Video	S-Video Plug	S-Video Plug	5.0m	Best	WQ7217	$10.90		
Video	S-Video Plug	S-Video Plug	10.0m	Best	WQ7220	$22.90	$20.90	$17.90
Video	RCA x 3 Plug	RCA x 3 Plug	5.0m	Best	WQ7250	$59.90	$53.90	$47.90
Video	D15HD Plug	RCA x 3 Plug	1.5m	Best	WQ7259	$6.90		
AV	3.5 (4 Pole) Plug	3.5 Socket	2m	Good	WV7349	$11.90	$10.70	$9.50
AV	3.5 (4 Pole) Plug	3.5 Plug	2m	Good	WV7347	$11.90	$10.70	$9.50
AV	3.5 (4 Pole) Plug	3.5 x 2 Socket	300mm	Good	WA7020	$9.50	$8.50	$7.50
AV	3.5 (4 Pole) Socket	3.5 x 2 Plug	150mm	Good	WA7022	$8.50	$7.60	$6.80

DVI, HDMI & Optical Cable/Adaptors

TOSLINK SPLITTER/JOINER

This optical splitter / joiner works both ways, however typically it's used to split a signal to two receivers. Mechanical connectivity, no power required.

- Works in either direction
- No power required
- Ultra compact
- Weight: 15g
- Dimensions: 58(D) x 40(W) x 21(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3512	$10.90	$9.90	$8.90

TOSLINK SOCKET TO SOCKET

This tiny device allows you to connect two TOSLINK cables together. Simply plug your TOSLINK cables either side and you instantly have a longer cable!

- Plug and play
- Minimal signal loss
- Dimensions: 28(D) x 14(W) x 12(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3511	$7.90	$7.10	$6.30

DVI ADAPTOR

- Female to female - all pins wired straight through
- Compatible with DVI-I single dual link, DVI-single/ dual link & DVI-A male

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA0896	$19.90	$17.70	$15.70

TOSLINK FEMALE TO OPTICAL 3.5MM MALE

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3574	$7.90	$7.20	$6.50

TOSLINK PLUG TO SOCKET RIGHT ANGLE ADAPTOR

A useful adaptor that will let you connect optical cables when there is limited space between the back of the appliance and the wall. Also useful for going around corners!

	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA3513	$5.60	$5.00	$4.40

SMA, DVI & Fibre Optic Leads

SMA COAXIAL LEADS - FACTORY PRECRIMPED

WC7800/04

DVI-D TO DVI-D VIDEO CABLES

WC7590/91

DVI-A TO VGA VIDEO CABLE

WC7594

FIBRE OPTIC TOSLINK AUDIO LEAD

WQ7293/97

Use	Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
Video	SMA Plug	SMA Plug	1.0m	Best	WC7800	$24.90	$22.40	$19.90
Video	SMA Plug	SMA Plug	3.0m	Best	WC7802	$36.90	$33.20	$29.50
Video	SMA Plug	SMA Plug	5.0m	Best	WC7804	$54.90	$49.40	$43.90
Video	DVI-D Plug	DVI-D Plug	2.0m	Best	WC7590	$36.90	$33.20	$29.50
Video	DVI-D Plug	DVI-D Plug	5.0m	Best	WC7591	$53.90	$48.40	$43.40
Video	TOSLINK Plug	D15HD Plug	2.0m	Best	WC7594	$29.90	$26.90	$23.70
Audio	TOSLINK Plug	TOSLINK Plug	0.5m	Good	WQ7293	$10.90	$9.80	$8.70
Audio	TOSLINK Plug	TOSLINK Plug	1.0m	Good	WQ7294	$12.90	$11.30	$10.30
Audio	TOSLINK Plug	TOSLINK Plug	2.0m	Good	WQ7295	$18.90	$16.70	$14.90
Audio	TOSLINK Plug	TOSLINK Plug	5.0m	Good	WQ7297	$34.90	$31.90	$27.90

AV Wallplates

Ideal for HDMI extenders

BRUSHED REAR CABLE ENTRY WALLPLATE

Allows you to run pre-terminated cables through a wall. Brushed entry and concave extrusion will help protect against dust and keep the cables secured.

- Great for use with HDMI, Cat5, component/ composite, S-video, and a variety of other cables (excluding VGA)

	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS0296	$12.90	$11.30	$10.30

BRUSHED CABLE ENTRY WALLPLATE

Single gang brush plate for cable entry through walls etc. Suitable for pre-terminated cables going to LCD or plasma screens, and particularly suited to HDMI cables as they can't be split, spliced or field-terminated. An ideal solution if you only have a short cable run.

	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS0291	$11.90	$10.70	$9.50

STANDARD BLANK WALLPLATE

Allows you to run cables through a wall cavity. It is also compatible with our obsolete range of AV connector wallplates (PS0481 through to PS0486).

- Fits standard household power point bases and brackets

	Cat.	Qty 1+	Qty 2+	Qty 5+
Blank Plate	PS0480	$3.00	$2.60	$2.30

RECESSED CABLE ENTRY WALLPLATE

Create a neat cable entry/exit point for terminated or non-terminated audio and video leads. The wallplate design allows cables to be passed through walls with minimal fuss and the inner curved recessed design ensures maximum safety.

- Mounting screws included
- Screw thread size: 2.5mm

SMALL

- Dimensions 124(W) x 82(H) x 36(D)mm
  PS0295

LARGE

- Dimensions 124(W) x 82(H) x 55(D)mm
  PS0297

	Cat.	Qty 1+	Qty 5+	Qty 10+
Small	PS0295	$8.50	$7.65	$6.80
Large	PS0297	$9.50	$8.55	$7.60

HDMI 2.0 WALLPLATE WITH FLYLEAD

Give your media station or projector installation a neat finish with this handy multimedia wallplate. Available with a variety of video, audio, and data terminals to suit analogue and digital systems, all connections are double-sided for easy installation. Simply run a pre-made cable within the wall cavity or cabinet and plug it into the back of the wallplate.

- Standard GPO mount wallplate with concealed screws
- Plate dimensions 116(H) x 75(W) x 12(D)mm
- Approximate cavity depth required 60mm
- 150mm flylead behind plate on USB & HDMI connections
- VGA video
- Stereo 3.5mm audio

	Cat.	Qty 1+	Qty 5+	Qty 10+
HDMI 2.0	PS0281	$17.90	$15.90	$14.30

Zac Greene likes to

think. possible.

"My favourite piece of technology is NASA's robot. I believe that in 5-10 years time it will have evolved to be able to travel through space by itself and take samples of rocks and atmospheric pressure on other planets. That is my favourite piece of technology and how it'll evolve."

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Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

p.164 - for keystone wallplates & connectors

TV Wallplates & Accessories

METAL MOUNTING BRACKETS FOR LARGE WALLPLATES

Suitable for plasterboard walls.

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3033	$3.90	$3.10	$2.70

LARGE BLANK WALLPLATE

This is a standard power point size white blank wallplate. Size 72 x 115mm. Ideal for many uses, including mounting TV antenna sockets, audio sockets, speaker terminals, low voltage outlets etc, etc.

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3035	$5.90	$5.20	$4.70

FLUSHMOUNT 75 OHM TV WALL SOCKET WITH F59 CONNECTION

- Standard power point size
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 71(W) x 115(H)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3065	$6.90	$5.90	$5.50

PAL 2 SOCKET WALL PLATE - TV & FM

Standard power point size. Two PAL sockets, one for TV and one for FM. Simply run one cable in from antenna.

- F59 rear connection
- Mounting screws included
- Dimensions: 115(H) x 71(W)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3066	$9.50	$8.50	$7.50

F61 FLUSHMOUNT WALL SOCKET

Standard power point size.

- Accepts F59 plug both sides of this fitting
- Dimensions: 71(W) x115(H)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3040	$6.90	$5.90	$5.50

FOXTEL® APPROVED WALL PLATES

For splitting your foxtel signal to two outlets. These wallplates are Foxtel® approved. We also have a model featuring an RJ12 socket to wire in your home phone.

2 X F61 SOCKET WALL PLATE LT3041

2 X F61 & RJ12 SOCKET WALL PLATE LT3058

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3041	$9.50	$8.50	$7.50

WALLPLATE - MINI

Architrave type standard white wall plate with a cutout for the 75Ω snap-in insert shown below.

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3030	$3.90	$3.10	$2.70

75 OHM INSERT

Clips into the mini wall plate shown above.

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3031	$4.50	$3.70	$3.30

75 OHM TV FLOOR SOCKET WITH F59 CONNECTION

Designed to mount on the skirting board or floor.

- 75 ohm impedance (standard)
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 50(L) x 30(W) x 25(H)mm

Cat.	Qty 1+	Qty 2+	Qty 1+
LT3063	$4.90	$4.30	$3.90

F61 COAX FLOOR ENTRY

White in colour

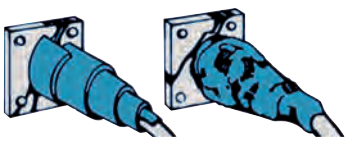
- Size 58 x 46(base) x 27(H) mm
- Accepts F59 plug both sides of this fitting

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3042	$4.50	$3.70	$3.30

COAX SEAL TAPE

This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat shrink tubing when access is difficult.

- 12mm wide x 1.5m long
- Used by the US Military and NASA



Cat.	Qty 1+	Qty 4+	Qty 10+
NM2828	$15.90	$13.70	$12.30

find out more in store

Our staff offer friendly and helpful service. We're here to help.

Caravan TV Accessories

TV OUTLET SOCKET

Make sure you never miss your favourite programs, sporting events or current affairs whilst travelling around Australia. This unobtrusive weatherproof cable socket includes connections, to support satellite dishes/ receivers and/or a TV antenna. Installation on most caravans, motorhomes and boats is easy; just identify where you want the socket to sit, drill the appropriate holes, feed the attached cables through the holes, and screw the socket into place. Close the cover partially to protect the socket from the weather. When you want to hit the road again, disconnect the cables and close the cover fully. Supplied complete with mounting hardware and an illustrated installation guide.

- Protective cover
- 3m Cables
- Dimensions: 110(L) x 60(W) x 30(H)mm (socket)

	Cat.	Qty 1+	Qty 2+	Qty 5+
Double "F" Connectors	LT3072	$36.90	$33.20	$29.50
1 x PAL & 1 x "F" Connector	LT3074	$36.90	$33.20	$29.50

p.480 - caravan antennas

CARAVAN/RV ANTENNA MAST CLAMP SET

1 YEAR WARRANTY

Specifically designed with travellers in mind, you can quickly pop the mast in and out, to maximise your reception when camped. Position the antenna brackets on the side of your caravan, motorhome or boat, then use the self-adhesive pads to quickly and easily secure them in place. The brackets also include holes for screw mounting if you're worried about wild weather conditions and would prefer a more secure option!

Suitable for 25-30mm dia antenna masts.

- Two mounting brackets
- Simple assembly
- Suits 25-30mm diameter masts
- Dimensions: 108(L) x 47(W) x 68(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
Pair	LT3208	$22.90	$20.90	$17.90

WHITE ROOF MOUNT CABLE ENTRY COVER

1 YEAR WARRANTY

This handy weather-proof cable entry cover will allow you to run your caravan's TV antenna cable outside without introducing unnecessary leaks.

- Dimensions: 150(L) x 65(W) x 30(D)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3076	$11.90	$10.70	$9.50

TV Flyleads

TV COAXIAL PLUG TO TV COAXIAL PLUG

WV7350

TV COAXIAL PLUG TO TV COAXIAL PLUG

WV7363

TV COAXIAL PLUG TO SOCKET

WV7360

TV COAXIAL PLUG TO SOCKET

WV7364

F PLUG TO TV COAXIAL PLUG

WV7384

F PLUG TO TV COAXIAL PLUG

WV7366

F PLUG TO F PLUG

WV7386

F PLUG TO F PLUG

WV7365

p.440 Concord TV coaxial cables

Connector 1	Connector 2	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
TV Coaxial Plug	TV Coaxial Plug	1.5m	WV7350	$5.90	$5.30	$4.70
TV Coaxial Plug	TV Coaxial Plug	1.5m - White	WV7363	$5.90	$5.30	$4.70
TV Coaxial Plug	TV Coaxial Plug	3.0m	WV7351	$7.90	$7.10	$6.30
TV Coaxial Plug	TV Coaxial Plug	5.0m	WV7352	$11.90	$10.70	$9.50
TV Coaxial Plug	TV Coaxial Plug	10.0m	WV7354	$21.90	$19.70	$17.30
TV Coaxial Plug	Socket	1.5m	WV7360	$5.90	$5.20	$4.70
TV Coaxial Plug	Socket	1.5m - White	WV7364	$6.90	$6.20	$5.50
TV Coaxial Plug	Socket	3.0m	WV7361	$9.00	$7.90	$6.90
TV Coaxial Plug	Socket	5.0	WV7362	$10.90	$9.50	$8.50
F Plug	TV Coaxial Plug	1.5m	WV7384	$5.90	$5.20	$4.70
F Plug	TV Coaxial Plug	1.5m - White	WV7366	$7.90	$7.10	$6.30
F Plug	TV Coaxial Plug	5.0m	WV7385	$11.90	$10.70	$9.50
F Plug	F Plug	1.5m	WV7386	$7.90	$7.10	$6.30
F plug	F Plug	1.5m - White	WV7365	$6.90	$6.20	$5.50
Flexible Coax Leads	F Plug	10m - RG-59	WV7450	$24.90	$22.40	$19.90
Flexible Coax Leads	F Plug - RG6	20m - RG-59	WV7452	$39.90	$35.90	$31.90

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Visit Our Online Store: www.jaycar.co.nz

Baluns & Filters

FLAT ANTENNA CABLE FOR WINDOW INSTALLS

This unassuming piece of cable can be a lifesaver. Its flat ribbon cable style means it will fit in door jambs and other tight spaces without damage. Just 265mm long with F-type female connectors on either end. Female to female joiner so you can place it inline with two standard F-type coax cables.

Features:

- Flat ribbon cable for tight spaces
- Will fit under a sash window or similar when the window is closed
- Low signal drop
- Quality F-type connections
- 265mm long
- 25g

	Cat.	Qty 1+	Qty 4+	Qty 10+
Flat Antenna Cable	WV7301	$10.90	$9.90	$8.90

4G/LTE FILTER FOR DIGITAL TV RECEPTION

1 YEAR WARRANTY

Since the re-stacking of Digital TV transmissions has already begun, pretty soon 4G/LTE mobile phone signals will start being transmitted on the old UHF TV channels 52-69. Of course, this means that UHF antennas will be picking up those signals, and interfering with Digital TV reception. When this filter is plugged into the back of a digital TV receiver blocks unwanted signals from 4G/LTE mobile transmitters.

- In-line coax connection - waterproof design
- Frequency pass range: 5-694MHz
- Insertion loss <1dB
- LTE band rejection: 720-1000MHz, 40dB

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3062	$19.90	$17.90	$15.90

TV ANTENNA SIGNAL FILTER "F" TYPE - FL694LP 4G LTE

Designed to fit in-line with an F-type coaxial cable or to your masthead amplifier. This easy to use filter will remove cell phone interference from your TV signal.

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3067	$24.90	$22.40	$19.90

INDOOR BALUNS

75Ω TO 300Ω

75Ω socket for input and 300Ω ribbon cable output. Allows connection of any 75Ω output (video, TV games etc.) to a TV with an older style 300Ω input.

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3022	$5.90	$5.30	$4.80

OUTDOOR BALUNS

300Ω TO 75Ω - 'F' TYPE

Mounts on antenna. Converts natural 300Ω impedance of an antenna to 75Ω for coax. 'F' type female output. Eliminates saddle clamp termination. Requires F plug.

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3028	$5.90	$5.20	$4.70

Indoor Antennas

UHF/VHF PASSIVE INDOOR TV ANTENNA - DESK OR WALL MOUNT

The traditional "rabbit" ears antenna for the modern day. With flat screen TV's, rabbit ear antennas no longer have the ideal spot sitting on top of the set. These rabbit ears can sit flat on a surface or be mounted on to a wall. Suits digital TV signals

- Mounting hardware included

SPECIFICATIONS	LT3116
Frequency Range	VHF: 174-230MHz, UHF: 470-862MHz
Cable Length	1.6m
Dimensions	195(W) x 15(D)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3116	$12.90	$11.90	$9.90

SLIM DIGITAL TV INDOOR ANTENNA WITH AMPLIFIER

This digital TV antenna is fitted with an LTE/4G filter which protects your TV from mobile broadband interference. It also features adjustable gain as well as telescopic dipoles and an adjustable loop aerial for optimal performance.

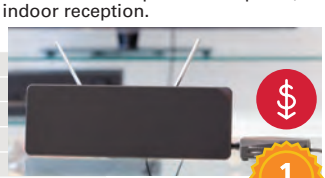
SPECIFICATIONS	LT3206
Max Output	90dBuV
Max Noise	1.5/1.8dB (VHF/UHF)
Frequency	VHF: 174-230MHz UHF: 470-694MHz
Dimensions	230(L) x 195(W)mm

Cat.	Qty 1+	Qty 2+
LT3206	$34.90	$30.90

INDOOR FLAT PANEL UHF/VHF DIGITAL ANTENNA WITH AMP

Sits unobtrusively near your TV. A very capable unit featuring signal clear technology with extremely low noise circuitry. It is able to pick up both UHF/VHF signals as well as DAB+ radio. It is also coupled with a separate amplifier with independent UHF and VHF gain adjustments. The amp can be powered with the supplied mains adaptor or from a USB cable (mini plug lead not supplied). Though the unit does not require the amplifier, it may be needed for areas with weak indoor reception.

- Built in LTE/4G filter



SPECIFICATIONS	LT3156
VHF Frequency	45-230MHz
UHF Frequency	470-862MHz
Output	Max 78dB
Channels	0-12 & 20-75
Impedance	75Ω
Panel Size	480(L) x 109(W) x 54(D)mm

Cat.	Qty 1+	Qty 2+
LT3156	$39.90	$35.90

SLIMLINE INDOOR/OUTDOOR UHF/VHF ANTENNA

This slim indoor/outdoor antenna is very easy to install and is supplied with mounting hardware for wall, mast or rail mount. A built-in amplifier with 4G filter provides optimal UHF and VHF signal reception for digital TV and DAB radio. Supplied with antenna cables at various lengths with PAL plugs, and a mains power adaptor.

SPECIFICATIONS	LT3166
VHF Frequency	174-230MHz
UHF Frequency	470-694MHz
Output	Max 11dB/19dB (UHF/VHF)
Channels	6-12 & 21-75
Impedance	75Ω
Panel Size	230(H) x 165(W) x 5(D)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3166	$56.90	$50.90	$44.90

want to know more about indoor antennas?

We have a great tech talk on this topic on page 481

SLIMLINE INDOOR UHF/VHF ANTENNA WITH SIGNAL METER

This slim indoor antenna can be sat on a table or mounted on a wall using the supplied hardware. A built-in low noise amplifier boosts the UHF and VHF signals, and an LED signal meter helps you direct the antenna for best reception. A mains power adaptor and 3m long antenna cable to PAL plug are included.

- Built-in Amplifier
- LED Signal Meter
- Wall or Table Mount

SPECIFICATIONS	LT3158
VHF Frequency Range	47~230MHz
UHF Frequency Range	470~862MHz
LED Indicating Resolution	Top (Coarse) / 10dB Typical Bottom (Fine) / 2dB Typical
LED Indicating Dynamic Range	40dB Typical

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3158	$79.90	$71.90	$63.90

DIGITAL INDOOR/OUTDOOR ANTENNA

As global television moves from analogue to digital, this indoor/outdoor digital antenna will be a great investment to your household. With its contemporary style design it may provide you with the high quality clear reception needed. The panel can mounted to the wall; great for minimising space. AC adaptor included.

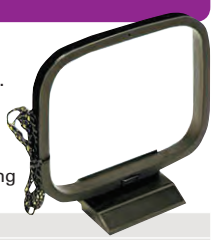
SPECIFICATIONS	LT3137
Frequency Range	VHF: 174-230MHz UHF: 470-862MHz
Antenna Gain	10dB
Total Gain	40dB
Impedance	75Ω
Output	F Female Connector
Dimensions	502(L) x 235(W) x 76(H)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3137	$99.90	$89.90	$79.90

AM / FM Antennas

INDOOR AM ANTENNA

Stereo tuners aren't made with internal antennas. Most people listen to FM with their tuner, but for the rest who want AM, we have the answer - a loop antenna that can be easily left on top of your stereo cabinet or stored out of sight. It has built-in stand and fly leads to fit the antenna spring terminals on most tuners.



SPECIFICATIONS	LT3001
Frequency Range	520 - 1660kHz
Dimensions	120(W) x 120(H)mm

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3001	$24.90	$22.40	$19.90

FM INDOOR ANTENNA

Simple ribbon type antenna (dipole) gives good performance in strong signal areas.

- 300Ω termination

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3002	$5.90	$5.30	$4.70

For our Shortwave Passive Reel Antenna see page 462
For our DAB+ Antenna see page 480

UHF Antennas

MINI UHF LOG PERIODIC ANTENNA

This UHF mini log periodic antenna has been specifically designed for Digital TV reception. It is supplied with an easy to install mounting bracket and "J" mast. Compact in size the antenna is capable of being installed vertically or horizontally and with 7.5dB of gain is the ideal reception solution for areas with medium levels of signal.

SPECIFICATIONS	LT3151
Element	20
Band	4-5
Channels	21-69
Frequency	470-862MHz
Gain	7.5dB
F/B Ratio	21dB
Overall Length	400mm
Maximum Width	311mm

Kingray

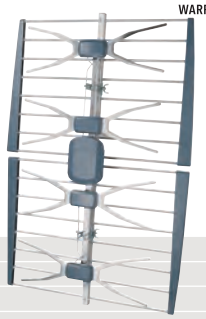
1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3151	$69.90	$62.90	$55.90

UHF PHASED ARRAY TV ANTENNA

1 YEAR WARRANTY

This heavy duty UHF phased array is ideal for problem digital reception areas where you may not have direct line of sight to the transmitter or there may be multipath issues due to reflected signals. It is capable of receiving either horizontal or vertical signals by changing the orientation of the heavy duty mounting bracket/U-bolt assembly. The LTE filter provides protection against 4G/LTE telephone communications.



SPECIFICATIONS	LT3154
Gain	12.5dB
Wind Load	78
Frequency	519-694MHz
Channels	27-51
Front to Back Ratio	22dB
No of Elements	4
Impendance	75 Ohm
Dimensions	815 x 545mm

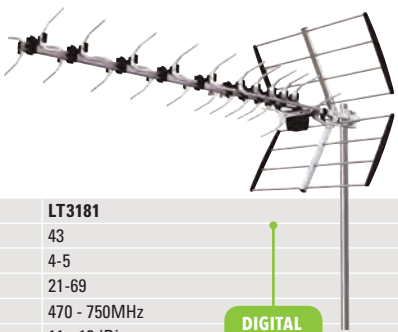
Kingray

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3154	$84.90	$75.90	$67.90

43 ELEMENT UHF ANTENNA

TV antennas suitable for medium or deep fringe signal reception areas. Features an LTE filter to prevent interference from 4G/LTE mobile networks, which is housed within a waterproof dipole box with F-type connection. Easy assembly - just fold elements into position.

- High quality waterproof F-type balun
- In-built filter for next-gen LTE/4G network signals



1 YEAR WARRANTY

SPECIFICATIONS	LT3181
Elements	43
Band	4-5
Channels	21-69
Frequency	470 - 750MHz
Gain	11 - 13dBi
F/B Ratio	15 - 25dB
Impedance	75Ω
Overall Length	1285mm

DIGITAL READY

	Cat.	Qty 1+	Qty 2+	Qty 5+
43 Element	LT3181	$53.90	$48.40	$42.90

VHF Antennas

ELEMENT VHF YAGI DIGITAL TV ANTENNA

With the major cities in Australia now receiving their Digital TV reception on Band 3, the Kingray range of yagi antennas provide the perfect solution for metropolitan and some country areas. The antennas are almost completely assembled out of the box, with only the reflector and director having to be attached to the boom. The heavy duty 12mm elements, stainless steel screws on the driven element connection points, powder coated boom and UV stabilised plastics will ensure many years of trouble free reception. They are also suitable for DAB+ reception.

NOT AVAILABLE IN NEW ZEALAND.

LT3153

Kingray

1 YEAR WARRANTY

SPECIFICATIONS	LT3152	LT3153
Elements	4	6
Band	3	3
Channels	6-12	6-12
Frequency	174-230MHz	174-230MHz
Gain	9.5dB	10.5dB
F/B Ratio	15dB	16dB
Overall Length	735mm	1275mm
Maximum Length	835mm	835mm

Not available in New Zealand

DIGIMATCH VHF BAND 3 ANTENNAS

Major metro cities in Australia are receiving their Digital TV broadcasts exclusively on VHF band 3 channels 6-12. These fantastic heavy duty VHF Yagi antennas made exclusively for Jaycar by Matchmaster have all the features you expect - high grade 12.7mm diameter aluminium extruded elements, "G-unit" dipole, UV stabilised black plastic isolators, stainless steel hardware, blue powder coated boom, and a high grade F-type balun for superior digital performance. And let's not forget these are 100% Australia made! A sure bet for the best Digital TV reception in your home.

DIGITAL READY FOR METRO DIGITAL AREAS

Matchmaster TV Reception Systems For the Best

SPECIFICATIONS	LT3165
Elements	10
Gain	9.5dB
Avg. VSWR	<2.0:1
Max F/B Ratio	21.5dB
Channels	6-12
Boom Length	1548mm
Max Width	900mm

MADE IN

1 YEAR WARRANTY

Not available in New Zealand

tech talk — Digital TV Antenna Guides

Before you invest in a new antenna and make the effort to climb up on the rooftop to install it, be sure to check out our TV Antenna Guide to make sure you have the correct antenna. Our friends at KINGRAY have come up with some very useful TV Antenna Guides that recommend the best antenna for your area. The coloured charts show you the main, adequate and tertiary TV coverage areas based on the transmitter tower's location, and then recommends which antenna is best suited to that location. The guide also suggests accessories, such as masthead amplifiers, that you may need depending on your location. TV antenna guide for the Sydney Region shown below.
Visit our website www.jaycar.co.nz/tvantennas or visit your local Jaycar store to view the FREE guide.

For next day delivery, or Click and Collect, see page 5

pick me TV Antennas

	Type	Elements	Channels	Frequency Range (MHz)	Gain	Front-Back radio	Overall Length	Page
LT3195	Combination	27	6-12 21-69	174-230 526-659	VHF 7dB UHF 11dB	VHF 12dB UHF 18dB	1320mm	480
LT3151	UHF	20	21-69	470-862	7.5dB	21dB	400mm	479
LT3154	UHF	4	27-51	519-694	12.5dB	22dB	815mm	479
LT3181	UHF	43	21-52	470-750	11-13dBi	15-25dB	1285mm	479
LT3153	VHF	6	6-12	174-230	10.5dB	16dB	1275mm	479
LT3165	VHF	10	6-12	174-230	9.5dB	21.5dB	1548mm	479

Combination VHF/UHF DigiMatch Antenna

These Australian made heavy duty antennas are the ideal metropolitan antennas for Digital TV as they are capable of receiving digital and analogue TV on VHF channels 6-12 and UHF channels 21-69. The UHF section of the antenna employs X-type elements for wider bandwidth and higher gain, whilst the VHF section has elements made from high grade aluminium strong enough to withstand damage from birds. The VHF section of these antennas can be mounted horizontally or vertically for areas such as Canberra and Shepparton, making them suitable for all TV transmitters throughout Australia. Their overall design has improved figures for gain, VSWR and F/B ratio to give a superior carrier to noise ratio - this means more signal, less noise and therefore much lower chance of picture dropouts. The Digital anti-reflection Matching System (DMS) employs a diplexer to electronically couple the VHF and UHF sections of the antenna together, giving 20dB isolation to achieve a better Bit Error Ratio (BER) and maximum digital performance.

- Ready for today and future UHF allocations and Plus One networks
- F-Type PCB balun & diplexer for quick installation and improved VSWR
- Black ABS UV resistant plastics
- 12.7mm dia. VHF elements
- Stainless steel screws
- Australian designed and manufactured
- Powder coated boom (blue)

DIGITAL READY

Note: Not available in New Zealand

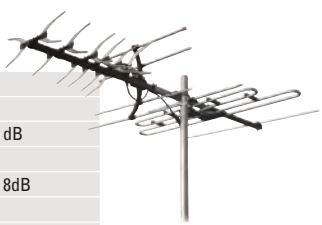
Matchmaster TV Reception Systems For the Best

MADE IN

1 YEAR WARRANTY

DIGIMATCH VHF/UHF X-TYPE COLINEAR 27 ELEMENT

Receives Band 3, 4, and 5 (Channel 6-12 and 21-69). Supplied in stout, compact cardboard packaging.



SPECIFICATIONS	LT3195
Elements	27
Gain	VHF 7dB, UHF 11dB
Avg. VSWR	1.9:1
Avg. F/B Ratio	VHF 12dB, UHF 18dB
Boom Lenth	1320mm
Max Width	900mm

Not available in New Zealand

DAB+ OUTDOOR ANTENNA

NEW

If you live on the fringe or an area where the digital radio reception isn't the best, then this antenna will help ensure uninterrupted listening time. Supplied with an 8.5m long cable, which is pre-terminated with an F-type and PAL plug to make installation a breeze. Suits digital radios with antenna input.

SPECIFICATIONS	LT3159
Frequency	VHF 174-230MHz
Impedance	75Ω.
Polarisation	Horizontal
VSWR	VHF <2.4
Gain	3db (Approx.)
Dimensions	900(L) x 700(W) x 50(D)mm

Note: Not available in New Zealand

Not available in New Zealand

OUTDOOR OMNI-DIRECTIONAL UHF/VHF AMPLIFIED DIGITAL ANTENNA

With inbuilt low noise and high gain booster, this compact and weather resistant outdoor digital antenna is ideally suited for caravans, boats, and other fixed or mobile applications where space is constrained or harsh environmental conditions require a little extra durability. Excellent wide frequency reception for local free-to-air analogue and digital TV, DAB+ digital radio as well as FM radio transmissions. It can be either base mounted or mast mounted and includes mounting bracket, 12V mains power adaptor and a 12V in-car charger.

- SMD technology
- Anti-rust and UV protected

SPECIFICATIONS	LT3141
FM	87.5 - 108MHz
VHF	174-230MHz
UHF	470-862MHz
Output level	Max 108dB
Impedance	70 Ω
Receiver Dish	350 (Dia) x 60(H)mm
Mounting Base	120(Dia) x 70(H)mm

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3141	$109.00	$96.90	$86.50

OUTDOOR UHF/VHF/MARINE TV ANTENNA

Digital ready. It rotates. Ideal for "grey nomads". This unit is ideal for the traveller. This antenna works on all frequencies ideal for any part of AUS/NZ. (Some better than others, we admit). It covers VHF low, down to 45MHz (channel 2) to 860MHz (channel 69). Includes a signal amp, a rotator motor, a remote control and also with approx. 8m of TV lead with a weatherproof plug on one end.

- 12VDC mains adaptor supplied
- Includes booster amp which will drive 2 x TV's
- Compatible with LT3204 telescopic mast
- Output 80 dBuV
- Remote includes: 1 x 12V battery
- Antenna measures: 750(W) (deployed) x 300(L) x 100(D) (mm) (Folds down for storage)

Note: Mast not included - use LT3204.

1 YEAR WARRANTY

Cat.	Qty 1+	Qty 2+	Qty 5+
LT3143	$79.90	$71.90	$63.90

where's my local Jaycar store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

Splitters/Amplifiers

AMPLIFIER 20DB GAIN PLUG IN 4G LTE FILTER

This TV amplifier with 4G filter is ideal for improving reception on a single TV whilst simultaneously eliminating intereference from mobile phone signals. To use, simply plug into electrical socket, connect TV antenna cable into the "ANT' socket and the TV / VCR cable into the "TV' socket. Once proper connection is made, turn the power on and select gain level as required. Includes 2 x 'F' Type male to PAL female connectors.

- 4G LTE filter output 694-862MHz
- Frequency 40 - 694MHz
- Adjustable gain 20dB
- Power: 240VAC/50Hz 10A 2.5Watt
- Low Noise 3dB
- Built in LED indicator
- RF shielded internal metal housing
- For indoor use only

Matchmaster TV Reception Systems *For the Best*

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3289	$69.90	$62.90	$55.90

ECONOMY UHF/VHF MASTHEAD AMPLIFIER

Provides a powerful boost to help provide a quality free-to-air TV signal to your set top box. Mounts on your antenna mast, powered by an inside power injector which connects inline to the TV outlet. Includes mounting hardware, suitable for indoor/outdoor use.

Features:

- High gain amplification
- Multiple mounting options
- Full 1080p HD ready

SPECIFICATIONS	LT3276
Frequency Range	VHF: 47-230MHz UHF: 470-700MHz
Gain	VHF: 18dB ±3dB UHF: 16dB ±3dB
Weight	26g
Dimensions	190(H) x 140(W) x 55 (D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
Mast Head Amplifier	LT3276	$56.90	$50.90	$44.90

INDOOR TV AMPLIFIER/SPLITTERS

SINGLE OUTPUT

Such a simple and neat solution to boosting your TV antenna signals. The unit simply plugs into a mains outlet, and boosts your TV antenna signals through the F-type input and output sockets. There is also a mains output socket on the front so that you don't lose any power points behind your TV unit. Up to 20dB of amplification is provided, with a variable gain control.

SPECIFICATIONS	LT-3285
Frequency Range	46-860MHz
Gain	20dB
Gain Control	15dB VHF, 10dB UHF
Noise Figure	Only <3.5dB
Dimensions	96(L) x 60(W) x 40D(mm)

FEATURES "F" SOCKETS

2 WAY

Boost your TV signal indoors. The antenna lead is plugged into the amplifier, and there are two outputs for two TVs, both which have a 12dB boost. One outlet can be used for FM stereo if desired. Runs on 240VAC mains, and includes a LED power indicator.

3 YEAR WARRANTY

4 WAY

A digital television splitter/ amplifier for use in multiple receiver applications. The amplifier has F type input/output connectors and features variable gain on the VHF band. The unit operates from 240VAC and is mounted in a white ABS housing with integral mounting lugs. Size 60(W) x 40(H) x 85(L)mm. Adaptors are included to suit Belling Lee installations.

SPECIFICATIONS	LT3287
Frequency Range	40 - 860MHz
Variable Gain	0 - 6db

Kingray

	Cat.	Qty 1+	Qty 2+	Qty 5+
Single Output	LT3285	$54.90	$49.40	$43.90
2 Way	LT3288	$54.90	$49.40	$43.90
4 Way	LT3287	$109.00	$97.95	$86.95

tech talk — Indoor TV Antennas?

Jaycar carries a great range of "indoor" type TV antennas in both passive & active gain models, which are good quality. Many people select such products hoping that they will offer satisfactory TV reception without the cost and/or hassle of a full outdoor TV antenna system. Often people who are renting premises cannot install a full TV antenna system anyway because they are not allowed to drill holes etc. The reality, however, is that indoor TV antennas rarely give totally satisfactory results. The antenna element dimensions never correspond to broadcast frequencies for a start. Because you are inside, you may have no idea where the TV tower is anyway. Even if you knew where the tower was the antenna rarely has directional qualities. This makes the towers' location fairly meaningless. Trying to make an indoor antenna according to the laws of physics misses the point. Despite this, indoor TV antennas can work amazingly well! Just don't get too scientific about it. They work best when you can throw a rock and hit the TV tower. As all the channels you will want to watch will not be in rock-throwing distance, some stations will work better than others. Wiggling the antenna around is really your only available technique. Indoor TV antennas are made for flat dwellers in large Western or Asian cities with high building density. In other words, all the TV towers will not be far away.

If you live in a "spread out" city and cannot see a TV tower i.e. like most Australian and New Zealand cities, it is highly likely that an indoor antenna will not solve your reception problems. There may simply be very little signal for you to pick up. Just imagine walking into a darkened room at night. Even with your eyes wide open you see virtually nothing until your eyes adjust to the conditions. At best you can see, say the white frame of a door. You certainly would not be able to read! You would not blame your eyes because you could not see but people frequently blame an indoor TV antenna in a similar situation for "not working" (visible light and TV signals are both part of the electromagnetic spectrum).

So when you buy an indoor antenna - from us or anyone else - don't expect a lot. If you bring the product back and say "it doesn't work", we know that you are really blaming the messenger. You may think that our words are a bit harsh but we respect both your time and your money too much to tell you what you need to hear, not what you want to hear. The copy above relates mainly to Analogue TV systems. They are basically gone now but the need for an indoor or temporary TV antenna still exists. Let us Jaycar people take a position on this: We do not like indoor TV antennas and if we could get away with it, we would not sell them.

The behaviour of an indoor TV antenna can be ok, it can really be bizarre. If you are renting a flat and have a hopeless TV (Digital) reception you really need to get the landlord to fit a proper TV signal feed. Good Luck.

The TV Signal is still R.F. however, although digitally encoded. This means that the indoor antenna is still capable of picking up the radio frequency signal and converting it into a signal voltage. In all likelihood the antenna will pick up several versions of the R.F. signal at once. This is because R.F. being R.F. will have made its way to your antenna via several paths. It will be up to the front end of your TV receiver to distinguish the strongest signal and ignore the others. Modern TV front ends are pretty good at this.

So if you are in a rented flat and want to watch TV try one of our indoor antennas. Ours are as good as or better than anyone else's. If you are not happy with the performance of the antenna, keep the packaging, your receipt and bring it back to us if you feel you have to. Just don't tell us that …"it does not work…" You will get your money back all right, but you might get a blank stare…..

For next day delivery, or Click and Collect, see page 5

Splitters / Amplifiers CONTINUED

KINGRAY VHF/UHF MASTHEAD AMP WITH LTE/4G FILTERS

As you may be aware by now, a large chunk of the Australian TV broadcast spectrum is being reallocated for the next generation 4G/LTE mobile phone service. This is currently due to happen at the end of 2013, and early reports are suggesting that this reallocation of the spectrum may interfere with existing TV reception apparatus. To guard against this, Kingray have produced this Australian made masthead amp that provides a good VHF & UHF TV band gain, and user selectable filters for VHF bands 1&2, FM radio, fixed pagers, and the new 4G/LTE band.

- Supplied with AC power injector and F-type to PAL adaptors
- Combination and separate VHF & UHF Antenna inputs.

A fantastic product proudly made in Australia

Kingray

MADE IN

SPECIFICATIONS	LT3251
Frequency Range	VHF 44-230MHZ, UHF 520-860MHz
Gain	VHF 22-26dB, UHF 35dB
Gain Control	VHF 16-12dB, UHF 15dB
Noise Figure	VHF 3.5dB, UHF 2.1dB
Selectable Filters	FM, LTE, VHF band 1 & 2, fixed pagers
Suitable Power Supplies	LT3256, LT3258 or LT3259

3 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3251	$149.00	$133.90	$118.90

LTE = Long Term Evolution (4G Wireless Broadband Technology)

RF OVER CAT5 AMPLIFIER

At the heart of the Kingray CATTV™ system is the CAT01 high output distribution amplifier - capable of supplying quality signal to up to four televison receivers. The CAT01 amplifier incorporates master gain and tilt controls, plus individual gain controls for each outlet, delivering a balanced output level regardless of cable lengths.

Features:

- High Output
- 35dB maximum gain
- -20dB test point
- Wide bandwidth

Kingray

SPECIFICATIONS	LT3236
Frequency Range	47-862MHz
Gain	35dB max.
Output Level	98dB
Minimum Input Level	63dBµV
Tilt Control	0-15dB
Input Gain Control	0-20dB
Noise Figure	-8dB
Return Loss	-13dB
Isolation	-20dB (port to port)
Test Point	-20dB
Current Draw	800mA at 5VDC

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
RF over CAT5 Amplifier	LT3236	$339.00	$299.00	$269.00

2M RJ45 - PAL LEAD SUITS LT3236

The Kingray KLE02 impedance matching balun cable for connection between the RJ45 wall outlet and the television ensuring optimal performance at all times.

Kingray

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3237	$33.90	$29.90	$26.90

INDOOR DIGITAL TV AMPLIFIER UHF/VHF

A portable and compact amplifier capable of boosting signals to passive indoor TV antennas for both digital and analogue signals. It can be powered from the supplied mains adaptor or USB (mini plug available separately) and features independent manual UHF and VHF gain adjustments to give you greater control over your signal. In-built signal clear technology will help to give you the best possible picture and video.

- Standard PAL input and output connections

SPECIFICATIONS	LT3281
VHF Frequency	45 - 230MHz
UHF Frequency	470 - 862MHz
Gain	20dB
Noise	<3dB
Impendance	75 Ω
Dimensions	100(L) x 60(W) x 27(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
Single	LT3281	$36.90	$33.20	$29.50

UHF/VHF/FM INDOOR AMPLIFIER TV SPLITTERS

1 YEAR WARRANTY

Split and amplify your UHF, VHF or FM signals with these handy amplifier splitters. Features high gain and low noise to ensure your signal is of a high quality. Both units can be wall mounted for greater convenience.

- Mains adaptor included

SPECIFICATIONS	LT3282
Frequency Range	47 - 900MHz
Output(max)	2 z 87dBuV
Gain Average	20dB
Noise	<2dB
Power	12VDC/50mA
Dimensions	110(L) x 70(W) x 35(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT3282	$34.90	$31.90	$27.90

REPLACEMENT POWER SUPPLIES FOR MASTHEAD AMPLIFIERS

F-Socket power injector.

- 14VDC@150mA - LT3256
- 17.5VAC@100mA - LT3258
- Connection: F-59

LT3258

Kingray

3 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3258	$36.90	$33.20	$29.50
	LT3256	$36.90	$33.20	$29.50

12V MASTHEAD AMP POWER INJECTOR

An easy solution to powering a masthead amp on a caravan, RV, camper trailer etc. It plugs into a cigarette lighter/12V power socket and feeds power for a masthead amplifier. Simply connect between the antenna down lead and your set top box. F-type connections fitted.

- Suitable with LT3251 VHF/UHF masthead amplifier
- Ideal for Caravans and RV's

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3259	$48.90	$44.00	$39.10

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

Splitters / Amplifiers CONTINUED

INDOOR SPLITTER - 2 WAY

Allows you to connect two TV, video, games, FM receivers etc. to one RF plug, so you can run multiple devices on one outlet.

- Takes standard PAL RF connectors
- 2 x female sockets to male plug

	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT3020	$7.50	$6.20	$5.50

SINGLE POWER PASS SPLITTERS

These have power pass on the input to one output. This is to allow voltage up through the splitter to power a masthead amplifier or satellite dish LNA. These allow the voltage on one port only, so if anything goes wrong, all ports are not affected by low frequency shorts.

DIGITAL READY

Low VSWR for Performance

Type	Power	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	Single	LT3046	$15.90	$13.70	$12.30
4 Way	Single	LT3047	$21.90	$19.30	$16.90

KINGRAY FOXTEL® APPROVED SPLITTERS

NEW

This class A digital ready F-type splitter is designed for peak performance across the entire terrestrial and satellite bands up to 2400MHz. It is compact in size and has excellent RF screening to reduce interference. Power pass on all ports allows power to pass through to a masthead amplifier or satellite dish LNA. 1 x F-type input to 2 x F-type out.

- Foxtel® Approved
- Power-Pass
- 1 In, 2 Out
- Can be Wall Mounted
- >100dB RF Shielding

Type	Power	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	2 Ports	LT3069	$8.90	$8.00	$7.10
4 Way	4 Ports	LT3071	$14.90	$13.90	$11.90

TV Accessories

DIGITAL TV SIGNAL STRENGTH METER

No more multiple trips up to your roof to get that perfect picture. Connect the pocket sized DVB-T signal strength meter and adjust the angle of your digital TV antenna, the easy to read LED indicator lets you know when you've hit the right spot. Adapters included.

- Requires 1 x 9V battery
- Frequency range: 40-862MHz
- Input Level: 50-90dBuV

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT3332	$49.90	$44.90	$39.90

SATELLITE FINDER WITH LED DISPLAY

Connected between the satellite dish and set top box the meter displays signal strength on the 6 LED display. Once the meter picks up a signal use the adjustable sensitivity to fine tune the angle and lock in on the signal. A small compass is included to help you get the dish pointed in the right direction. Perfect for setting up permanent dishes as well as portable systems on caravans or RVs.

- Dimensions: 90(L) x 48(W) x 31(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 5+
	LS3302	$34.90	$31.90	$27.90

Antenna Hardware

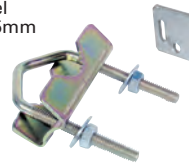
BARGEBOARD ANTENNA MOUNT - HOCKEY STICK

Simply bolt onto bargeboard (below gutter). 1800mm long, galvanised steel construction. Mounting plate: 215 x 65mm

LT3200

U-CLAMP/V-BLOCK

For securely clamping mast sections, mounts, etc. at right angles.



LT3235

	Cat.	Qty 1+	Qty 4+	Qty 10+
Hockey Stick Mount 1.8m	LT3200	$48.90	$44.00	$39.10
U Clamp V Block	LT3235	$5.90	$5.30	$4.80

CARAVAN/RV (GENERAL PURPOSE) MAST

This unit in natural finish anodised aluminium is a telescopic mast suitable for TV and other antennas. It will extend to 1.5 metres in 3 sections. The top section is 27mm dia. which is compatible with almost all TV antenna mounting hardware. The bottom section is 35mm dia. which would easily be accommodated by U-bolt or other clamping hardware (not supplied). The top section has a sturdy cap & features a slot to neatly thread the coax lead down through the mast.

- Length extended: 1.5m

1 YEAR WARRANTY

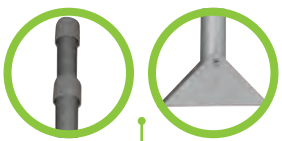
	Cat.	Qty 1+	Qty 4+	Qty 10+
Up to 1.5m	LT3204	$36.90	$33.20	$29.50

TELESCOPIC ANTENNA MAST

With adjustable height and durable aluminium construction, this versatile telescopic antenna mast is suitable for just about any domestic application as well as marine and mobile use. It has a maximum height of 4.5 metres and includes a base mount and three guy wires for ensured stability.

- Suitable for multiple antenna use
- Easy installation & height adjustment
- 36mm diameter
- Maximum height 4.5 metres

Top *Bottom*



IDEAL FOR GREY NOMADS

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Up to 4.5m	LT3202	$79.90	$71.90	$63.90

DISEQC™ 1.2 MOTOR WITH METAL GEAR

DiSEqC™ (pronounced "Die-Sec") is the signal protocol used between a satellite receiver and a dish rotor. This DiSEqC™ motor connects to the output of an LNB and to the input of a DiSEqC™ receiver or interface box. When you select a different channel on your receiver, the motor rotates the dish to the correct satellite position so you get the best picture. The motor also supports receivers with Goto "X" function for manual position adjustment.

SPECIFICATIONS	LS3330
Protocol	DiSEqC™ 1.2 & Goto "X"
Compatible Receiver	Receiver with DiSEqC™ 1.2 or Interface Box
Compatibilt Antenna Size	120c max.
Satelite Position	100 positions
Azimuth Angle	80˚ East - 80˚ West (160˚)
Elevation Angle	25˚ - 75˚
Speed	2.5˚/second at 13V or 3.2˚/second at 18V
Input/Output Voltage	13/18VDC
Dimensions (Mount)	345(L) x 168(H) x 110(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+
	LS3330	$69.90	$62.90

For next day delivery, or Click and Collect, see page 5

plasma / LCD / LED TV wall brackets:

We have celebrated the emancipation of new bracket designs by introducing a total new product range. Wall brackets for TVs & monitors have come down in price for 2 main reasons.

- Supply is no longer dominated by expensive European manufacturers
- The brackets no longer need to be made to hold 80kg+ CRT-type TVs.

Our range of universal TV and monitor brackets are easily strong enough to safely hold up any LCD, LED or even plasma TV safely. Indeed TVs are in fact getting lighter and lighter.

These products have come a long way. Not only are they more versatile, most come with built-in bubble-type spirit levels to aid in successful installation.

- Models to suit Plasma/LCD/LED TVs from 13" - 100"
- VESA standard compliant
- Mounting hardware & instructions included
- Solid steel construction

LCD MONITOR WALL BRACKET WITH CABLE MANAGEMENT

This full motion mount is able to tilt, swivel and rotate 360°. It features a cable routing management system and allows for an easy and fast installation with included hardware kit.

- Steel full motion flat panel mount
- Cable management system
- Easy and fast installation

1 YEAR WARRANTY

SPECIFICATIONS	CW2853
Suits	13-27" flat panel TVs
Tilt	-15°/+15°
Swivel	60°
Rotation	360°
Max Loading	20kgs
VESA	75x75, 100x100
Distance To The Wall	80mm

		Cat.	Qty 1+	Qty 5+	Qty 10+
13-27"	20kg	CW2853	$54.90	$49.40	$43.90

LCD MONITOR SWING ARM WALL BRACKET

- Anti-theft full motion flat panel mounts
- Aluminium arms, plastic cover and cable management system
- Easy and fast installation

SPECIFICATIONS	CW2851
Suits	13-27" flat panel TVs
Tilt	-15°/+15°
Swivel	180°
Rotation	360°
Max Loading	20kgs
Max VESA	75x75, 100x100mm
Distance To The Wall	80-442mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
13-27"	20kg	CW2851	$69.90	$62.90	$55.90

LCD MONITOR SWING ARM WALL BRACKET WITH TWO SLIDE-IN LOCKING PLATES

An adjustable LCD screen wall bracket, which you can tilt and swivel to get the best possible viewing angle. The industry standard VESA mount supports most LCD screens between 13-27" with a weight up to 15kg. A second wall bracket is supplied so you can easily relocate the TV from inside to the outside (or another room) of your home or caravan. Supplied with spirit level and mounting hardware.

GREAT FOR CARAVANS

SPECIFICATIONS	CW2878
Tilt Angle	+55° up to -35°down
Swivel Angle	180° left & right
Max. Weight	15kg (33lbs)
VESA Mountaing System	75x75, 100x100
Extends	up to 382mm from wall
Wall Bracket Dimensions	158(H) x 66(W)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
13-27"	CW2878	$74.90	$67.40	$59.90

ULTRA-THIN LCD TV WALL BRACKET

This economy TV wall bracket is only 22mm deep so your TV will sit closer to the wall than conventional brackets. The lateral shift allows for the TV to move for perfect placement. A quick-release design allows the TV to lock and unlock instantly from the wall plate. The bracket is designed for easy and fast installation. Mounting hardware is included, along with a bubble level to avoid your TV being mounted out of alignment. Universal & VESA compliance 200x200, 400x200, 400x400, 600x400

SPECIFICATIONS	CW2882
Suits	32-70" flat panel TVs
Max loading	45kg
Max VESA	600x400
Distance to the wall	22mm
TV mounting plate	640(W) x 400(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	CW2882	$33.90	$29.90	$26.90

ECONOMY ULTRA-THIN LCD TV WALL BRACKET WITH 10° TILT

This economy TV wall bracket is only 22mm deep so your TV will sit closer to the wall than conventional brackets. The lateral shift allows for the TV to move for perfect placement. A quick-release design allows the TV to lock and unlock instantly from the wall plate. The bracket is designed for easy and fast installation. Mounting hardware is included, along with a bubble level to avoid your TV being mounted out of alignment. Universal & VESA compliance 200x200, 400x200, 400x400, 600x400.

1 YEAR WARRANTY

SPECIFICATIONS	CW2883
Suits	32-70" flat panel TVs
Tilt	10/0°
Swivel	-
Rotation	-
Max loading	45kg
Max VESA	600x400
Distance to the wall	34mm
TV mounting plate	640(W) x 400(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	CW2883	$45.90	$40.90	$35.90

ADJUSTABLE LCD WALL BRACKET 23-55"

Designed for TVs from 23-55" in size that weigh up to 20kg. Adjustable height and quick release locking system to enable easy placement and removal of your TV from the bracket. Also features a spirit level built onto it's Aluminium Frame.

- Type: Television
- Max Weight: 20kg
- Item Width: 46.2cm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
23-55"	20kg	CW2864	$54.90	$49.40	$43.90

TV Mounting Brackets CONTINUED

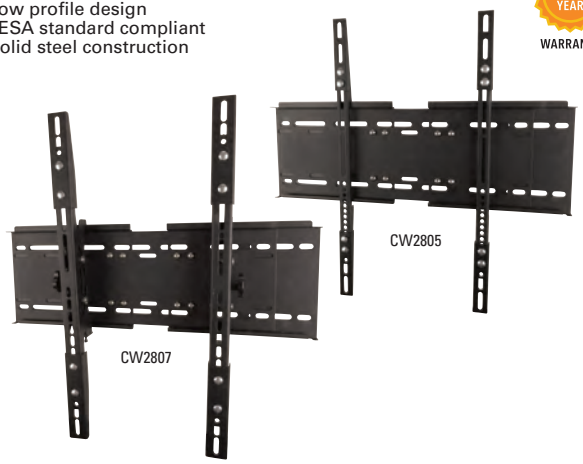
50-100" LCD MONITOR WALL MOUNT BRACKETS

NEW

1 YEAR WARRANTY

Designed to mount flat panel screens from 50 to 100" and weighing up to 100kg onto a wall. The sturdy steel frame has a universal VESA hole pattern to suit most screens and a 28mm low profile design. Supplied with mounting hardware and instructions.

- Low profile design
- VESA standard compliant
- Solid steel construction

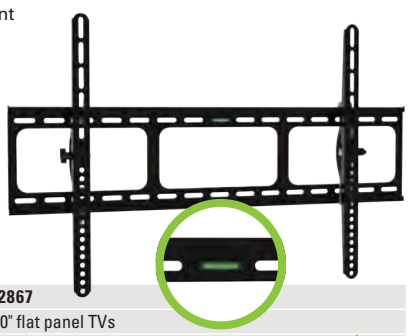


SPECIFICATIONS	BOTH
TV Size	50-100" (127-254cm)
Max Load	100kg
VESA Mounting	900 x 600 (Max)
Distance To The Wall	28mm
Dimensions	1042(W) x 700(H) x 28(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fixed	CW2805	$79.90	$71.90	$63.90
With +/-15° Tilt	CW2807	$119.00	$106.90	$94.90

LCD MONITOR WALL MOUNT BRACKET WITH 10° TILT

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level



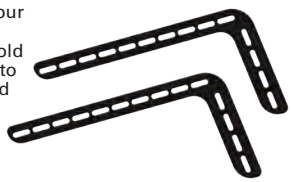
SPECIFICATIONS	CW2867
Suits	42-80" flat panel TVs
Tilt	-10°/+10°
Max Loading	60kg
Max VESA	800x500
Distance To The Wall	43mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
42-80"	60kg	CW2867	$89.90	$80.90	$71.90

SOUNDBAR WALLMOUNT BRACKET

This versatile bracket set allows you to mount a soundbar or similar above your flat screen TV (or vice versa). The two brackets are made from high gauge cold rolled steel and will support loads up to 15kg. The kit includes two brackets and an assortment of M4, M5, M6 bolts, washers and nuts. Dimensions: 450(L) x 230(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	CW2881	$28.90	$25.90	$22.90

p.306 - computer monitor brackets

LCD MONITOR WALL MOUNT BRACKET WITH 15° TILT

- Universal tilting flat panel mount
- Cold rolled steel
- Easy and fast installation
- Angle free adjustment
- Lateral shift allows TV to move for perfect placement
- Spirit level

SPECIFICATIONS	CW2866
Suits	23-37" flat panel TVs
Tilt	-15°/+15°
Max Loading	37kg
Max VESA	300x300
Distance To The Wall	63mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
23-37"	37kg	CW2866	$46.90	$42.40	$37.40

LCD MONITOR WALL MOUNT BRACKET WITH 180° SWIVEL

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level

SPECIFICATIONS	CW2868
Suits	23-55" flat panel TVs
Tilt	-10°/+5°
Swivel	180°
Max Loading	30kg
Max VESA	400x400
Distance To The Wall	43-502mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
23-55"	30kg	CW2868	$109.00	$99.90	$89.90

CEILING MOUNT ADJUSTABLE BRACKET

1 YEAR WARRANTY

Suits panel sizes from 37 inches up to 70 inches (940 - 1780mm) and weighing up to 80kg - and the price will leave plenty of room in the budget for a new set of AV cables and wall plates to complete the installation. It allows vertical extension up to 550mm and forward tilt up to 15 degrees.

SPECIFICATIONS	CW2859
Suits	37"-70"
Tilt	-10°/+5°
Adjustable	380-620mm
Load	80kg
VESA	700 x 400
TV Mountaing Plate	815(L) x 215(H) x 12(D)mm

		Cat.	Qty 1+	Qty 5+	Qty 10+
37-70"	80kg	CW2859	$119.00	$106.90	$94.90

LCD MONITOR WALL MOUNT BRACKET WITH 180° SWIVEL

Suiting panel sizes from 32" up to 55" (810 - 1400mm) and weighing up to 55kg - and the price will leave plenty of room in the budget for a new set of AV cables and wall plates to complete the installation. The full motion ability allows extension up to 530mm, left/right swing up to 180° and forward tilt up to 15° so it is ideal for mounting in a corner or any other awkward position.

SPECIFICATIONS	CW2861
Suits	32" - 55"
Tilt	-15°/+0°
Swivel	180 °
Load	25kg
Vesa	600 x 400
Distance To The Wall	42-532mm
TV Mountaing Plate	740(W) x 425(h) x 25(D)mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
32-55"	25kg	CW2861	$149.00	$133.90	$118.90

TV Mounting Brackets CONTINUED

LCD MONITOR WALL MOUNT BRACKET WITH 180° SWIVEL

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level

SPECIFICATIONS	CW2869
Suits	32-70" flat panel TVs
Tilt	-10°/+5°
Swivel	180°
Max Loading	35kg
Max VESA	600x400
Distance To The Wall	43-502mm

1 YEAR WARRANTY

		Cat.	Qty 1+	Qty 5+	Qty 10+
32-70"	35kg	CW2869	$139.00	$124.90	$110.90

PC Monitor Bracket

PC MONITOR HANGING CUBICLE BRACKET

Free up some desk space and make use of the cubicle walls! This clever bracket caters for monitors up to 27" with a standard VESA mount. Features 360° rotation, 15° tilt and a cable management clip to keep your cables tidy. Includes adjustable hang height for optimal positioning, and all mounting hardware is included.

NEW

SPECIFICATIONS	CW2834
Monitor Size	13-27" (33-69cm)
Rotation	360°
VESA Mounting	75 x 75, 100 x 100
Supported Cubicle Width	99-126mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
13-27"	CW2834	$69.90	$62.90	$55.90

Media Player TV Mount

UNIVERSAL MEDIA PLAYER TV MOUNT

This genius universal mount allows you to mount your Apple® TV, Fire TV and other streaming boxes onto the back of your TV or bracket. Perfect for wall-mounted TVs to keep things neat. Hanging, adhesive, and screw mount options. All mounting hardware included.

- Hang, stick, or screw mount
- Easy installation
- Suitable for Fire TV, Roku 3, Apple® TV, etc

NEW

SPECIFICATIONS	CW2844
Supported Media Player Size	140(H) x 140(W) x 110(D)mm
Supported Weight	Up to 800g
Dimensions	136(H) x 104(W) x 10(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW2844	$16.90	$14.90	$13.90

Projector Mounts

EXTENDABLE UNIVERSAL PROJECTOR CEILING BRACKET

- Aluminium projector ceiling mount
- Fits most projectors

1 YEAR WARRANTY

SPECIFICATIONS	CW2857
Tilt	30
Rotation	360°
Height Adjust	240-310mm
Max Loading	10kg

	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW2857	$79.90	$71.90	$63.90

Cable Management

CABLE MANAGEMENT STRIP FOR TV WALLMOUNTS

Get rid of unsightly cable arrangements with this stylish aluminium cable channel. Supplied with 4 mounting screws and 4 screw anchors, it will add a professional looking touch to your home cinema.

- Dimensions: 1000(L) x 60(W) x 20(H) mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+
	CW2877	$13.90	$12.90

HIDDEN CAVITY MEDIA HUB

Designed to be mounted in a cavity / stud wall, it has provision for up to five wall plates, or three wall plates and a small converter. Inside you can install whatever you need for HDMI connections, power points, antenna connections, or anything else you like. The cables are then fed through the hole in the front-plate for connection into your TV. It only protrudes from the wall by a few millimetres, so you could have it behind a flush-mounted TV and wouldn't even know it's there! Includes mounting hardware, just BYO wall plates and equipment.

Note: GPO mains outlets should only be fitted using a licensed electrician.

- Holds up to 5 standard wall plates
- Dimensions: 285(W) x 250(H) x 70(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+
	CW2879	$69.90

Screen Maintenance

LCD SCREEN CLEANING KIT

Keep your computer, TV and other LCD screens clean with this easy to use kit. Remove dust and fingerprints without streaking, scratching or staining. The special solution removes those greasy fingerprints and the elastic anti-static brush and scratch free microfibre cloth are excellent for eliminating dust and grime.

- Elastic anti-static Brush
- Drip-free cleaning solution
- Special microfibre material which is capable of preventing panel scratch and will not harm LCD protective coating

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR1418	$15.90	$13.90	$12.90

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

Speaker Brackets

ADJUSTABLE TILT & SWIVEL SPEAKER WALL BRACKETS

This two-piece swivel bracket is easy to install and is made of strong ABS plastic. Primarily designed for mounting small/medium sized speakers for surround sound setups or could easily be used for mounting security lights/ CCD Cameras.

- Tilt: -10°/+10°
- Swivel: -90°/+90°
- Max Load: 5kg
- Sold as a pair.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	CW2803	$19.90	$17.90	$15.90

SPEAKER WALL BRACKETS

Ideal for mounting home cinema effects speakers.

- Made from high grade glass reinforced nylon
- Suits small to medium speakers up to 5kgs (11 pounds)
- Fully adjustable in all directions
- Supplied with a comprehensive range of fasteners for many speaker types
- Black in colour
- Sold as a pair

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	CW2820	$29.90	$26.90	$23.70

ADJUSTABLE WALL SPEAKER BRACKET

If your listening room is a bit short on real estate, the answer may be to mount your speakers on the wall with a set of brackets. These brackets can be adjusted horizontally, vertically to tilt up to 20° or to fit speakers up to a depth of 370mm and as small as 80mm. Ideal for conference rooms, AV rooms, studios or small rooms where space is limited. Supplied as a pair.

- Each bracket holds up to 20kg
- Fits speakers from 150mm wide, 80mm deep
- All steel construction
- Black powder coat finish
- All fittings and hardware included
- Sold as a pair

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Pair	CW2840	$47.90	$42.90	$38.40

CEILING / WALL SPEAKER BRACKET - STEEL

This sturdy bracket has main axis angle adjustment by a diecast, toothed plate secured by a wing nut. The detents won't slip as can happen with ball types. Minor axis adjustment is by a handwheel with backup by lock screw. As a safety measure a steel wire lanyard easily secures the two halves of the bracket - a good safety feature that is common in professional P.A Installations. The wall plate has holes for 4 x 6mm (or 1/4") screws. Another hole is provided for speaker wire egress. The speaker mounting plate has 4 x 4mm holes and also two slotted holes. Sold individually.

SPECIFICATIONS	CW2841
Max Speaker Box Weight	10kg
Angle Variation	Main - over 180° Minor - 360°
Wall Mount Plate	100(W) x 105(H) mm
Speaker Mount Plate	80(W) x 45(H) mm
Distance From Speaker To Wall	135mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	CW2841	$24.90	$22.40	$19.90

tech talk VESA Mounting Standard

The Video & Electronics Standard Association (VESA) has issued suggested standards for the attachment mounting systems for electronic visual displays also known as the Flat Display Mounting Interface. This is a family of standard defined by VESA for mounting flat panel monitors, TV's and other displays to stands or wall mounts, it is used on most modern flat-panel monitors and TV's. Whilst these standards are quite detailed the basic details of the standards involve the size of the display and the relevant spacing and sizing of the hole to mount the display. The dimensions vary from 75 x 75mm to 800 x 400mm.

Lapel Microphones

TIE CLASP MICROPHONE

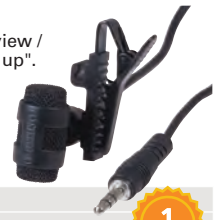
Electret condenser tie clasp microphone. Supplied with alligator clip to attach to tie or shirt and 2 metres of cable to 3.5mm plug. Ideal for lectures, stage, video recorders etc.

SPECIFICATIONS	AM4092
Type	Electrect condensor
Polar Pattern	Cardioid
Impedance	1kohm
Sensitivity	-67dB ±3dB @ 1kHz
Frequency Response	20Hz - 16kHz
Power Requirement	1.5VDC 0.7mA max
Termination	2 metre cable, 3.5mm plug

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4092	$24.90	$22.40	$19.90

STEREO TIE CLASP MICROPHONE



This is a lightweight tie-clasp mic, ideal for interview / documentary style recording when you can "mic up". It features two uni-directional electret condenser pickups to provide a true stereo output too. A 2m cable to 3.5mm plug is provided too.

- Stereo output
- Low impedance

SPECIFICATIONS	AM4131
Frequency Response	100Hz - 16kHz
Weight	30g
Cable Length	2m

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo	AM4131	$29.90	$26.90	$23.90

STEREO LAPEL MICROPHONE WITH HEADPHONE SOCKET

1 YEAR WARRANTY

Using a very clever design, this lapel microphone provides a 4-pin 3.5mm plug for connection to devices which use the port for headphone / microphone connections. It then provides a 3.5mm stereo socket to provide you with a headphone outlet, so you can still connect your favourite pair of headphones. Perfect for laptops, smartphones, and more. Microphone includes a carry pouch and tie clip.

- High quality omni-directional condenser
- Compatible with iPhone®, iPad®, iPod Touch®, Samsung, and Windows Smartphones

SPECIFICATIONS	AM4013
Type	Condenser Microphone
Polar Pattern	Omni-Directional
Sensitivity	-30dB ± 2dB
Frequency Range	35Hz - 18kHz
Weight	10g
Dimensions	130(W) x 90(H) x 30(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo Lapel Microphone	AM4013	$16.90	$14.90	$13.90

Josh Marsden likes to

think. possible.

"Prosthetic arm controlled by thought. Giving someone back the independence of this technology is amazing. In the next 5-10years I would like to see this technology fine tuned, more intuitive and provide more feedback for the patient. Would also like to see it more accessible to more people"

For next day delivery, or Click and Collect, see page 5

Lapel Microphones CONTINUED

WIRELESS UHF LAPEL MICROPHONE & RECEIVER

Provides a 6.5mm jack that connects directly to an input of a mixer or amplifier. The unidirectional Lapel Microphone with 1.2m cable connects to a small transmitter that clips onto your waist or fits into your pocket. The transmitter has a volume control and is also rechargeable by USB. The systems effective range is 50m on average, making it ideal for street announcers/performers, pubs, club functions, etc.

NEW

SPECIFICATIONS	AM4045
Operating Time	8~10 hours (@ 50% volume)
Charging Time	3~4 hours
Battery Tx	18650 Lithium 3.7V 1500mA
Battery Rx	3.7V 750mA
Receiver	105(L)x36(W)x19(D)mm, 45g
Transmitter	85(L)x56(W)x27(D)mm, 92g

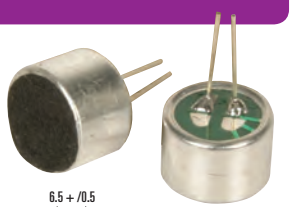
1 YEAR WARRANTY

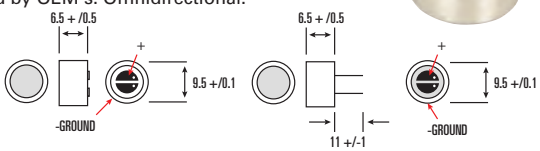
	Cat.	Qty 1+	Qty 4+	Qty 10+
Label Microphone	AM4045	$94.90	$84.90	$75.90

Microphone Inserts

MICROPHONE INSERTS

Replacement electret mic inserts for tape recorders and other low-cost microphones. Once power is supplied they work beautifully. For example, you can solder them to a PCB for a mic input. Used by OEM's. Omnidirectional.





SPECIFICATIONS	BOTH
Power	1.5V - 10VDC
Current Consumption	<0.5mA
Frequency Range	50Hz - 16kHz
Sensitivity	68dB +/- 3dB
Output Impedance	<2.2k ohm
S/N Ratio	>56dB
Dimensions	9.7(Dia.) x 6.7mm (+/- 0.2mm)
Pin Length (AM4011)	10mm (+/-0.5mm)

		Cat.	Qty 1+	Qty 4+	Qty 10+
Standard	Without Pins	AM4010	$3.00	$2.60	$2.30
Standard	With Pins	AM4011	$3.00	$2.60	$2.30

Peter Januarius likes to

think. possible.

"Micro-controllers are brilliant, creative and educational (eg. Arduino). In 5-10 years they will be hooked up to our homes in every conceivable way, making intelligent decisions, both local and remote, making purchases, managing our investments, lighting up our homes, entertaining our kids and generally working with us and for us!"

Megaphones & Wireless PA Systems

10 WATT MEGAPHONE WITH SIREN

A compact yet powerful personal megaphone. Operation is simple; select speak with the switch, speak into the microphone, and it will amplify your voice. Adjustable volume level and in-built siren as well. Handle folds away for easier storage and transportation, and there's a wrist strap for safety (especially when standing above a crowd).

1 YEAR WARRANTY

SPECIFICATIONS	AM4041
Power Output	10W
Range	200m (Approx.)
Power Source	Requires 4 x C batteries
Battery Life	8-10hrs.
Dimensions	135(W) x 230(D) x 210(H)mm (Handle folded out)

	Cat.	Qty 1+	Qty 4+	Qty 10+
10W	AM4041	$33.90	$29.90	$26.90

25 WATT MEGAPHONE WITH SIREN

If you need to be heard in a crowd, this is a great way to do it. Totally portable using 8 x C batteries (not included) for approximately 8-hours of operation. The powerful 25W amplifier and horn speaker will help your message be heard up to 500m away! The microphone can detach from the back of the unit thanks to a curly cable, allowing you to hold the unit above your head (in a crowd), but still speak clearly into the microphone. A built-in siren generator is also included, which is sure to get you attention. The shoulder strap makes it easy to carry and trigger activation provides straight forward operation and power-saving while not in use.

SPECIFICATIONS	AM4042
Power Source	Requires 8 x C batteries
Effective Distance	Up to 600m
Battery Life	Up to 6 hours
Dimensions	240(W) x 355(D) x 270(H)mm (without microphone attached)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
25W	AM4042	$79.90	$71.90	$63.90

Podcast Microphones

THRONMAX MDRILL DOME MICROPHONE

1 YEAR WARRANTY

Improve your podcasting or audio recording with this fantastic USB microphone. Plug and play operation for most platforms, you'll be up and running in no time. Solid triple-layered grille for durability, mounted to an adjustable stand for optimum positioning. Wide frequency response (20Hz to 20kHz) and powerful 16-bit 48kHz sampling ensure fantastic quality sound. What's more is it includes a 3.5mm audio output for headphone monitoring, with adjustable level control. This is perfect for monitoring as you go. A 2m USB Type-C cable is provided for connection.

Features:

- Wide frequency response
- High sampling rate
- 3.5mm headphone monitoring output
- 670g
- 200(H) x 112(Dia.)mm (Including Stand)

SPECIFICATIONS	AM4133
Microphone	
Power	5V @ 200mA (USB Type-C)
Sampling	48kHz / 16-bit
Frequency Response	20Hz-20kHz
Supports	Windows 7+, Max OS 10/7+, Sony Playstation 4
Headphone Amplifier	
Connection	3.5mm
Power Output	180mW
Frequency Response	15Hz-22kHz

	Cat.	Qty 1+	Qty 4+	Qty 10+
Thronmax Mdrill Dome	AM4133	$149.00	$133.90	$118.90

Wired Microphones & Accessories

UNIDIRECTIONAL DYNAMIC MICROPHONE

Dynamic, unidirectional microphone with an anti-pop grille, built-in on/off switch and a plastic finish.

- Fixed 3 metre lead with 6.5mm plug

SPECIFICATIONS	AM4190
Type	Unidirectional dynamic
Frequency Response	50Hz - 13kHz
Sensitivity	-50dB
Output Impedance	600 ohm
Termination	3 metre cable - 6.5mm plug

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4190	$12.90	$11.30	$10.30

UNIDIRECTIONAL DYNAMIC MICROPHONE - XLR

Dynamic, unidirectional microphone with an anti-pop grille, built-in on/off switch and XLR termination.

- Supplied with a 3m XLR to 6.5mm plug cable.

SPECIFICATIONS	AM4192
Type	Unidirectional Dynamic
Frequency Response	50Hz - 13Hz
Sensitivity	-50dB
Output Impedance	600 ohm
Termination	3 metre cable - XLR plug

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4192	$18.90	$16.70	$14.70

DYNAMIC UNIDIRECTIONAL PROFESSIONAL MICROPHONE

With professional styling, it features a cardioid polar pattern for reduced background noise and feedback. This microphone is ideal for use in theatres, nightclubs, public address systems and recording. Excellent frequency response and tough metal construction make this microphone great value.

- XLR termination
- With 6m XLR to 6.5mm plug cable

SPECIFICATIONS	AM4099
Type	Unidirectional, dynamic
Polar Pattern	Cardioid
Impedance	600Ω
Sensitivity	-72dB ±3dB @ 1kHz
Frequency Response	60Hz - 12kHz
Termination	6 metre cable, 6.5mm plug

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4099	$36.90	$33.20	$29.50

UNIDIRECTIONAL BALANCED PROFESSIONAL VOCAL DYNAMIC MICROPHONE

A top quality balanced mic suitable for singing and band work. Similar performance to those costing $200 or more.

- With 6m XLR to 6.5mm plug cable
- Zinc-diecast, low impedance
- Compare with the Shure© SM58!

SPECIFICATIONS	AM4096
Type	Unidirectional, balanced dynamic
Polar Pattern	Cardioid
Impedance	500Ω
Sensitivity	-76dB ±3dB @ 1kHz
Frequency Response	40Hz - 17kHz
Termination	6 metre cable, XLR

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4096	$54.90	$49.40	$43.90

p.472 - microphone cables

BOOM MICROPHONE STAND

Height adjustable with a boom that extends 600mm, so is suitable for vocals, overheads or micing up drum kits or pianos. Mic holder with 5/8" adaptor included.

- Steel construction
- Folds up to 850mm long

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4113	$41.90	$37.90	$33.40

DESK TOP MIC STAND

Designed for applications where you don't need a full-size mic stand. The build quality is excellent with diecast aluminium legs, steel column and padded feet.

- Adjustable up to a height of 200mm and folds up to 240mm long
- Includes mic holder with 5/8" adaptor

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4111	$24.90	$22.50	$19.70

EXPANDING MICROPHONE HOLDER

This expandable microphone holder will accept standard 22mm tapered microphones and will expand to accommodate larger diameter mics.

- Fitted with a 5/8" x 27 thread
- Black in colour

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4107	$8.90	$7.90	$6.90

GOOSENECK MOUNTING BASE

With 5/8'' thread. Surface mountable for microphone & goosenecks.

- Solid metal construction
- Supplied with mounting screws
- Size 44mm base dia

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4130	$7.90	$7.20	$6.50

FLEXIBLE GOOSENECK

- Metal - 450mm long
- 5/8" male to 5/8" female fittings

	Cat.	Qty 1+	Qty 4+	Qty 10+
450mm	AM4127	$17.90	$15.90	$14.30

DJ GOOSENECK MICROPHONE

Connects directly to most mixing consoles to provide talkback or PA functionality. The XLR plug on the end plugs straight in, while the gooseneck allows for optimum positioning.

- Flexible goosneck
- 3-pin XLR male connector
- Minimises feedback

1 YEAR WARRANTY

SPECIFICATIONS	AM4012
Type	Dynamic
Cardioid Pattern:	Unidirectional
Frequency Response	50Hz - 10kHz
Impedence	500ohm
Sensitivity	76dB +/- 3dB
Connector	3 Pin male XLR
Weight	26g
Dimensions	500(L) x 110(W) x 35(D) mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
DJ Gooseneck Microphone	AM4012	$45.90	$40.90	$35.90

Wireless Microphone Systems

UHF WIRELESS MICROPHONE & RECEIVER

NEW

Add wireless functionality to your wired-setup with this plug-in receiver and wireless UHF microphone. It provides standard 6.5mm plug-in functionality to suit just about any PA system or amplifier.

The microphone is powered by 2 x AA batteries (not included) and the receiver is USB rechargeable which is ideal for functions, weddings or street performers. Features up to 40m range and has 7 selectable UHF channels to reduce interference. Includes USB charging cable.

- UHF wireless
- Rechargeable receiver
- Plug and play operation
- Lithium polymer battery for receiver
- Output via 6.5mm plug

SPECIFICATIONS	AM4134
Receiver Output	6.5mm Plug
Power Output	13dB

	Cat.	Qty 1+
	AM4134	$69.90

PORTABLE WIRELESS UHF MICROPHONE HEADSET SYSTEM

Ideal for trade shows, demonstrations, or anywhere you want to be heard! The 10W amplifier and speaker pairs with the microphone, but can also be used in MP3 mode to playback from a USB flash drive (not supplied). Recharge both units using the supplied adaptors, and you're ready to go again!

SPECIFICATIONS	AM4053
Playback Time	Up to 18hrs
Recharge Time	3-5hrs
Amplifier Power	10W
Weight	253g
Dimensions	90(W) x 110(L) x 40(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4053	$119.00	$106.95	$94.95

PORTABLE WIRELESS UHF LAPEL MICROPHONE SYSTEM

NEW

A wireless portable PA system suitable for spruiking, busking and other events where you are speaking to an audience. The main unit is lightweight and clips onto your waist. It comprises of a 10W amplifier with speaker, power switch with volume and a built-in rechargeable battery for up to 12 hours of talk time. The wireless headset is lightweight and comfortable to wear. Charge the main unit and microphone from an available USB power source using the supplied USB cable.

SPECIFICATIONS	AM4049
Playback Time	8-12 hours (6-12 hours for MP3)
Recharge Time	3-5 hours
Amplifier Power	10W
Wireless Distance	30-35m
Power	3.7V 1800mAh Li-ion built-in
Weight	170g
Dimensions	106(L) x 86(W) x 42(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4049	$139.00	$124.90	$110.90

automatic accounts

For Schools, Colleges, Universities, Government Departments, Radio & TV Stations - we'll open a 30-day account for you automatically. Just fill in the account form or apply online.

UHF HEADSET MICROPHONE KIT

Using high quality UHF transmission between the headset and receiver. 3.5mm AUX connection. 3-5hrs of talk time from a 2-3hr charge.

SPECIFICATIONS	AM4051
Microphone	Unidirectional Condenser
Frequency Response	30Hz-23kHz
Output Impedance	≤2.2KΩ
Sensitivity	-41dB ± 1dB (0dB=1V/Pa)
Working / Charge Time	3-5hrs / 2-3hrs
Weight:	Sender: 25g Headset: 44g
Dimensions:	Sender: 65(D) x 33(W) x 15(H)mm Headset: 150(W) x 135(H) x 130(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
UHF Headset Microphone Kit	AM4051	$94.90	$84.90	$75.90

WIRELESS UHF MICROPHONE SYSTEM

These systems are a great way to add a wireless microphone to a PA system. XLR and 1/4" unbalanced outputs for use in any audio desk. The microphone itself has a power switch to save power, low battery indicator, and a classic metal-mesh finish. Ideal for schools, churches, weddings, gyms, karaoke etc.

- UHF Wireless
- Works with all PA Systems

SPECIFICATIONS	AM4119	AM4132
Frequency	525.9MHz	Ch A 525.1 / Ch B 645.8MHz
Transmission Range	60m	
Microphone Power	2 x AA Supplied	
Pick Up	Dynamic	
Dimensions - Microphone	236(L) x 52(Dia.) mm	
Dimensions - Receiver	175(L) x 108(D) x 40(H)mm	

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Microphone System	AM4119	$119.00	$106.95	$94.95
Dual Microphone System	AM4132	$149.00	$133.90	$118.90
Channel A Hand-Held Microphone	AM4115	$69.90	$62.90	$55.90
Spare Headset Microphone Channel A	AM4116	$69.90	$62.90	$55.90
Channel B Hand-Held Microphone	AM4117	$69.90	$62.90	$55.90
Spare Headset Microphone Channel B	AM4118	$69.90	$62.90	$55.90

PORTABLE WIRELESS UHF PA SYSTEM WITH MICROPHONE

The amplifier/controller features a built-in rechargeable battery to keep it running for hours, and features full on-board control for playback, EQ, volume, and more.

- Quality UHF microphone
- USB/microSD recording
- Bluetooth® streaming
- Aux input • EQ and built-in echo

SPECIFICATIONS	AM4095
Output Power	30WRMS
Dimensions - PA System	260(W) x 290(h) x 130(D)mm
Dimensions - Microphone	245(H) x 48(Dia.)mm
Dimensions - Remote Control	146(H) x 45(W) x 15(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
PA System	AM4095	$239.00	$214.95	$190.95
Spare 12V 3Ah SLA Battery NEW	CS2498	$29.90	$26.90	$23.90

Musical Instrument Interfaces

USB MIDI INTERFACE CABLE

Connect any MIDI device to your computer: keyboards, controllers, instruments, sound cards, samplers, drum machines etc.

- Plug and play, no software or drivers required
- MIDI in and MIDI out connectors with LED indication
- Cable is 2 metres long

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC4934	$39.90	$35.90	$31.90

Musical Instrument Interfaces CONTINUED

2 CHANNEL MIXER WITH MICROPHONE PREAMP

The preamplifier takes your standard microphone level and boosts it for compatibility with line-level inputs. It provides the option of independent channels (mic 1 to left, mic 2 to right output), or mixing (both inputs are mixed to left and right outputs). In either case there's adjustable volume control for both microphones. Extremely versatile with simple operation. RCA output and mains power supply included.

- 2 x microphone inputs (6.4mm)
- Volume control for each input
- Stereo RCA output
- Screw mount holes

SPECIFICATIONS	AM4201
Input Impedance	600Ω
Mic Pre-Amplifier Gain	50dB
Signal to Noise Ratio	80dB
Weight	207g
Dimensions	145(W) x 96(D) x 31(H)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Channel Mixer with Mic Preamp	AM4201	$79.90	$71.90	$63.90

DJ MIXER 3 CHANNEL

This compact 3-channel stereo DJ mixer will have you tearing up the vinyl to mix your own beats. Channels A and B provide line or phono level stereo inputs, with cross-fade support between the two channels. A CD-input stereo/mono selectable channel is also provided. 5-level volume indicators provide handy visual level reference, while a dedicated microphone input is provided for talk-over. Headphone output is provided with adjustable level out, and there's even a grounding point!

- 1/4" Headphone Socket
- Coloured LED Output Display
- RCA Input Sockets
- Phono / Line and CD Inputs
- 2 x Stereo Line Output

SPECIFICATIONS	AM4207
Power	12VAC @ 300mA (Mains adaptor included)
Weight	780g
Dimensions	234(W) x 137(D) x 57(H)mm (Including Knobs/Sockets)

	Cat.	Qty 1+	Qty 4+	Qty 10+
DJ Mixer 3 Channel	AM4207	$69.90	$62.90	$55.90

AUDIO MIXER WITH BLUETOOTH® TECHNOLOGY

NEW

This audio mixer is compact and rechargeable, making it ideal for street busking, outdoor parties and events. Stream music from your Smartphone, Tablet or computer via Bluetooth or directly using the included 3.5mm stereo audio lead. Plug your microphone or instrument into the 6.5mm jack, and adjust the treble, middle, bass, volume, echo, and output volume using the front facing knobs. A USB to micro USB charging lead is supplied to charge the internal 1200mAh Li-ion battery, which has a play time up to 10 hours from a 4 hour charge.

- Bluetooth Receiver
- 6.5mm Microphone Input
- Rechargeable Battery

Bluetooth®

SPECIFICATIONS	AM4230
Bluetooth Version	4.2
Bluetooth Range	Up to 10m
Input	1 x 3.5mm Line in, 1 x 6.5mm Mic
Output	1 x 3.5mm Line out
Battery	1200mAh Rechargeable Li-ion
Working Time	Up to 10 hours
Charge Time	Up to 4 hours
Dimensions	107(W) x 75(D) x 37(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM4230	$45.90	$40.90	$35.90

Effects Lighting

3W UV LIGHT WITH ADJUSTABLE LENS

Ultra powerful UV light with an adjustable beam. UV torches are especially useful for nightclubs and security checkpoints for confirming the validity of identification. This ultra-bright 3W LED puts out a huge amount of UV light, so it's also great for night games such as Spotlight in the dark! Includes a wrist-strap.

Features:

- Aluminium body
- Adjustable lens angle
- Ultra-bright 3W LED

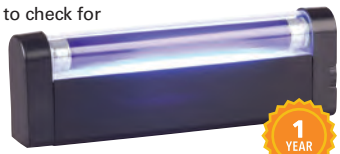
SPECIFICATIONS	ST3446
LED Power	3W
Batteries	3 X AAA (not included)
Burn Time	12-hours
Light Distance	10m
Weight	120g
Dimensions	105(D) x 21(Dia.)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST3446	$16.90	$14.90	$13.90

MINI ULTRA-VIOLET FLUORO LIGHT WITH TORCH

Use to detect counterfeit currency, to check for fake ID, gemstone and mineral inspection, or to just have fun by making objects glow. Includes small white spotlight.

- 4W UV lamp
- Hand carry strap
- Requires 4 x AA batteries
- Dimensions: 160(L) x 52(D) x 23(W)mm



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL3146	$18.90	$16.70	$14.70

40 WATT BLACKLIGHT FLUORO TUBE

Used extensively for live music, discos, night clubs, and great for parties. At our new low prices, you can now afford them.

- Requires standard 40 Watt fluoro fitting
- Dimensions: 1225(L) x 25(Dia)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	SL3152	$22.90	$20.90	$17.90

Stage Equipment

PA SPEAKER STANDS

Lift your speakers up and over a crowd. These speaker stands have strong steel with rubber feet, and support speakers up to 50kg. Sold individually. Suits speakers with 35mm mounting hole.

Two models available:

SMALL

Height adjustable between 620mm & 1m

LARGE

Height adjustable between 1.1m & 1.9m

1 YEAR WARRANTY

SPECIFICATIONS	CS2494	CS2493
Height	620mm-1m adjustable	1.1-1.9m adjustable
Max Load	Up to 50kg	Up to 50kg
Weight	1.7kg	3.3kg
Dimensions	90(Dia.) x 620(H)mm (Folded)	130(Dia.) x 1.1(H)m (Folded)

		Cat.	Qty 1+	Qty 4+	Qty 10+
Small	Each	CS2494	$33.90	$29.90	$26.90
Large	Each	CS2493	$56.90	$50.90	$44.90

For next day delivery, or Click and Collect, see page 5

PA Speakers - Active

8" RECHARGEABLE PA SPEAKER WITH BLUETOOTH®

A compact and lightweight portable 8" PA speaker for parties, functions or street busking. Play your music using Bluetooth® wireless technology with 3-6 hours playback from the internal lithium battery. The rugged injection moulded case incorporates two rugged wheels, an extendable handle on top, and handles on either side for added portability. Inputs include 6.5mm microphone, AUX, SD Card and USB, as well as a built-in FM radio. For the best performance there are adjustments for volume, bass, treble, microphone, and echo. A mains charger is included, and for long jam sessions away from mains power there is an input to connect a 12V battery if the internal lithium battery gets too low. A colour changing RGB LED light is located in the speaker box which provides a little visual entertainment too. Includes infrared remote control and mains power adaptor.

- Bluetooth® Wireless Technology
- USB & SD Card Playback
- FM Radio
- Rechargeable Battery
- 6.5mm Microphone Input
- 3.5mm Auxiliary & RCA Inputs
- RGB LED Light
- Extendable Trolley Handle & Wheels

SPECIFICATIONS	CS2495
Inputs	1 x 3.5mm Aux, 1 x 6.5mm Mic, 1 x RCA (L&R)
Audio Sources	Bluetooth®, USB, SD, FM Radio
Bluetooth® Version	4.2+EDR
FM Frequency	87.5-108.0MHz
USB/SD Capacity	Up to 32GB
Power Consumption	1466mA (Max)

1 YEAR WARRANTY

	Cat.	Qty 1+
	CS2495	$149.00

12" RECHARGEABLE PA SPEAKER WITH WIRELESS MICROPHONE

This portable 12" speaker has an in-built amplifier and rechargeable battery which is perfect for parties, functions or karaoke nights. Play your music from a Bluetooth® source, USB flash drive, microSD card or auxiliary input. An FM radio receiver is even included and has 3-6 hours playback time from the internal SLA battery. The wireless UHF microphone provides PA functionality, with its own volume and echo controls to mix it into the backing track playing. The USB and microSD card slot can be used for recording while singing your favourite song. A colour changing RGB LED light is located in the speaker box which provides a little visual entertainment too. It features an extendable trolley handle and wheels, so it's ready to go anywhere. Includes UHF wireless microphone, infrared remote control and mains power adaptor.

SPECIFICATIONS	CS2497
Inputs	1 x 3.5mm Aux, 2 x 6.5mm Mic
Output	1 x 3.5mm Aux
Audio Sources	Bluetooth®, USB, microSD, FM Radio
Bluetooth® Version	4.2+EDR
UHF Microphone Transmission Range	Up to 15m
UHF Frequency	525.85MHz
FM Frequency	87.5-108.00MHz
USB/microSD Capacity	Up to 64GB
Playback Time	3-6 Hours
Charging Time	4-8 Hours

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	CS2497	$289.00	$259.00	$229.00
Spare Wireless UHF Mic **NEW**	CS2496	$28.90	$25.90	$22.90
Spare 12V 3Ah SLA Battery **NEW**	CS2498	$29.90	$26.90	$23.90

15" PORTABLE ACTIVE PA SPEAKER WITH TWO CHANNEL UHF MICS

A massive sound from a compact and versatile unit. A huge 300WRMS amplifier provides plenty of power to move the 15" woofer and large horn speaker. It includes two wireless microphones for MC/Karaoke. To keep the music pumping, connect your favourite music streaming source via Bluetooth®, or via a SD/USB. Playback controls and information are provided on the speaker. A line and external speaker output is provided for expansion also. Bass and treble controls accompany the master volume for fine tuning of your sound too. Everything is enclosed into a single heavy duty enclosure, with roller wheels on the back-side to assist with transport.

SPECIFICATIONS	CS2491
Output Power	300W
Voltage	Mains powered
Frequency Response	40Hz - 20kHz
Sensitivity	98dB
Woofer	15"
Tweeter	34mm horn driver
Inputs	XLR / 1/4" Mic, XLR / RCA Line
Outputs	XLR Line Out, Speakon 8 Ω Speaker Out
Dimensions	470(W) x 712(H) x 415(D)mm

1 YEAR WARRANTY

Bluetooth®

		Cat.	Qty 1+	Qty 4+	Qty 10+
15"	Each	CS2491	$529.00	$469.00	$419.00

10" PORTABLE ACTIVE PA SPEAKER SYSTEM WITH 2 UHF MICROPHONES

This fully featured stereo PA system is made up of two 10" PA speakers with two powerful 50WRMS Class B amplifiers to drive them. All audio is managed through a comprehensive 8 channel audio mixer, and clear LCD. The mixer/amplifier is part of the main speaker during transport, but unclips when in use. The first 4 channels feature balanced/unbalanced inputs, bass/treble/volume, and an effects send through for the on-board digital effects processor. Channel 5/6 is a stereo unbalanced/RCA input, and channel 7/8 is a 3.5mm input. Phantom power is available on channels 1-4, and monitor/headphone pre-outs are provided too. A clear LCD provides feedback and control of SD/USB based playback, as well as Bluetooth® streaming from a compatible device. A remote control is also provided for reliable feedback of all operation.

SPECIFICATIONS	CS2566
Output Power	100W (2 X 50W)
Voltage	Mains powered
Frequency Response	75Hz - 19Hz (-3dB)
Mixer Inputs	4 x Mono Mic/Line, 2 x Stereo
Audio Sources	USB / SD / Bluetooth® Input (Selectable)
Weight	18.5kg (Combined)
Dimensions	305(W) x 490(H) x 320(D)mm (each)

1 YEAR WARRANTY

Bluetooth®

		Cat.	Qty 1+	Qty 4+	Qty 10+
10"	Pair	CS2566	$629.00	$559.00	$499.00
Suitable Speaker Stand - Each		CS2494	$33.90	$29.90	$26.90

Party Lighting

ROTATING DISCO BALL WITH LED SPOTLIGHTS

Create an amazing light show by hanging these lights on the ceiling to get the desired mood on your next party. Turn on and dance the night away with this brilliant mirror ball and LED spotlights station. It features an automatic rotating mirror ball, two adjustable angle spotlights with 6 red, green and blue LEDs each. It also has an additional 4 red and blue LEDs on the base for maximum effect.

- Mains power adaptor included
- Dimensions: 260(L) x 130(W) x 230(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
LED RGB	SL2916	$48.90	$44.00	$39.10

MULTI-COLOURED LED DISCO BALL

In days gone by, a mirror ball and spotlights was the best way to light up a dancefloor. But this single, compact unit will achieve a similar effect with less fuss. Let the disco ball take care of the hard work, and automatically sync to your music. If you'd like to see something in particular, take over with the included remote control. Easy! It's sure to keep the dancefloor rocking (just BYO music).

SPECIFICATIONS	SL3509
LEDs	Red, Green, Blue, Yellow, White, Purple
LED Power	3W (each)
Sync Modes	Sound, Automatic, Remote Override
Dimensions	190(Dia.) x 163(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
LED RGB	SL3509	$45.90	$40.90	$35.90

18 X 1W RGB LED PAR STAGE LIGHT

Each light features super bright LEDs that can change colour between white, red, green and blue, which can be controlled using the built-in program, sound activation via the built-in microphone or from a DMX controller (available separately). The supplied bracket allows you to mount the light permanently or placed on a table for temporary use. Two models to choose from.

- DMX512 control
- Mains powered
- Fan cooled

1 YEAR WARRANTY

ST3602

ST3600

SPECIFICATIONS	BOTH MODELS
LED Colours	Red, Blue, Green and White
Control Modes	Sound Activation, Built-in program, master-slave, Remote control
Dimensions	175(L) x 175(H) x 105(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
18 x 1W LEDs	ST3600	$94.90	$85.50	$76.90
7 x 4W LEDs	ST3602	$149.00	$134.90	$119.90

LIGHTING STAND

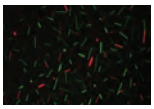
This strong and sturdy lighting stand will extend from a minimum height of 1,530mm to a maximum of 3,650mm and is designed to carry up to 20kgs on the square section cross tree. An integrated tripod support has collapsible legs that extend up to 750mm from the centre line of the stand, giving an overall base of 1,500mm which provides good stability even when the stand is fully extended. The cross tree has 4 bolts for attaching up to 8 Pin Spots or other attachments. The entire stand is finished in matt black.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	CL2800	$94.90	$84.90	$75.90

Laser Lights

MINI STAGE LASER LIGHT WITH BATTERY

Now there's no excuse for a dull party! With a portable laser light show it's almost impossible to not have a great time! Ideal for backyard parties, temporary installations, or anywhere a laser light show would be fun.



SPECIFICATIONS	SL3450
Laser	Red 650nm 110mW, Green 532nm 50mW
Internal Battery	2800mAh
Burn Time	4-6hrs
Recharge Time	6-8hrs
Weight	280g
Dimensions	112(L) x 65(W) x 43(H)mm

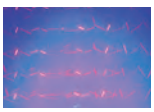
1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Mini Laser	SL3450	$89.90	$80.90	$71.90

RED/GREEN/BLUE MINI LASER LIGHT SHOW

A very compact unit, but houses three lasers - red, green, and blue. It creates an array of dazzling effects with 16 different display patterns, and can either run independently, or pick up on the beat of the music. Alternatively, use the included remote control to select the display pattern, speed, and modes. Mains power supply included, so you just plug and play!

1 YEAR WARRANTY



SPECIFICATIONS	SL3454
Laser Power Rating	Red: 100mW, Green: 40mW, Blue: 120mW
Weight	1kg
Dimensions	Dimensions 135(L) X 105(W) X 55(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Laser RGB	SL3454	$199.00	$178.90	$158.90

OUTDOOR LED & LASER LIGHT

Fairy lights are fun, but imagine at your next party your visitors arrive to a stunning laser show projected onto your house. It takes seconds to install, and is sure to get everyone in the partying mood! It combines a red and green laser with a high power LED for a stunning array of visual effects. It's also a great addition for festive lighting to help avoid any "dead areas" where you don't have other lights. Includes a remote control so it can easily be mounted out of reach if needed. It includes a mounting stand and garden spike, as well as a mains power adaptor.

Note: Garden spike also included.

SPECIFICATIONS	AL3401
Laser Power	Red: 100mW, Green: 20mW
LED Power	3W
Power Consumption	16.8W
Weight	390g
Dimensions	155(D) x 87(Dia.)mm (Excluding Stand)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser	SL3401	$94.90	$84.90	$75.90

product data

We have so much data and fact sheets we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

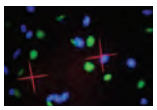
For next day delivery, or Click and Collect, see page 5

Laser Lights

LED & LASER PARTY LIGHT WITH SOUND ACTIVATION

The best of both party-lighting worlds in one unit! Two high powered lasers (one red, one green), as well as 13 high powered LEDs. It produces stunning and mesmerising light shows that will dazzle, and keep the party rocking all night. It will automatically sync with the music, or take full control with the DMX throughput to really get things going!

1 YEAR WARRANTY



SPECIFICATIONS	SL3410
Lasers	Red: 100mW 650nm Green: 50mW 532nm
LEDs	Red, Green, Blue, Orange, White, Yellow
Dimensions	300(W) x 320(h) x 230(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser + LED	SL3410	$289.00	$259.00	$229.00

LED FESTIVE LOGO PROJECTOR

A fun way to theme your next festive event. The high powered LED projects the image onto any suitable surface. Includes 6 graphic plates to suit many occasions. Birthday Party, Happy Easter, Love, Happy New Year, Merry Christmas, and a flying witch for Halloween. It includes a baseplate and garden spike mounting option, and a mains power adaptor.

1 YEAR WARRANTY

SPECIFICATIONS	SL3402
LED Power	7W
Power Input	12VAC @ 1A (Mains Adaptor Included)
Total Power	10W
Waterproof	IP65
Weight	700g
Dimensions	140(W) x 180(D) x 170(H)mm

	Cat.	Qty 1+
	SL3402	$39.00

RECTANGULAR STROBE LIGHT - 24 LED

This strobe light has super high intensity LEDs, that will add the necessary life to any party and produce an eye catching array of lighting effects to attract attention.

- Adjustable flash rate

	Cat.	Qty 1+	Qty 5+	Qty 10+
24 x White LEDs	SL2895	$24.90	$22.30	$19.70

MINI STROBE LIGHT - XENON

This unit uses a xenon flash tube and has a variable flash rate up to 10Hz.

- Operates on 240 VAC
- Supplied with a 1.7m cable
- Domestic use only
- Dimensions: 85(W) x 50(H) x 125(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 10+
Xenon	SL2990	$34.90	$31.40	$27.90

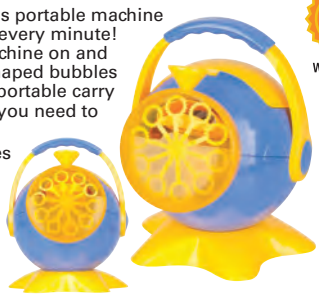
Bubble & Snow Makers

BATTERY OPERATED PORTABLE BUBBLE MACHINE

Children love bubbles and this portable machine creates hundreds of bubbles every minute! Simply switch the bubble machine on and watch it blow plenty of fun shaped bubbles into the air. Complete with a portable carry handle, this is the only thing you need to bring to any party!

- Requires 4 x C-sized batteries (not included)
- Recommended Bubble Liquid - AB1222 (available separately)

1 YEAR WARRANTY



	Cat.	Qty 1+	Qty 4+	Qty 10+
Bubble Machine	AB1224	$33.90	$29.90	$26.90
946ml	AB1222	$8.90	$7.90	$6.90

PROFESSIONAL MAINS OPERATED BUBBLE MACHINE

This powerful bubble machine will blow you away. At 20 rotations per minute, this party animal creates countless bubbles in the instant and won't stop until you pull the plug. Perfect for birthdays, parties, weddings or any occasions where you want lots of fun that you can see and touch.

- Carry handle with mounting hole for raining bubbles
- Mains powered
- Suitable Bubble Liquid: AB1222

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Bubble Machine	AB1229	$74.90	$67.40	$59.90
946ml	AB1222	$8.90	$7.90	$6.90

SNOW MACHINE 600W

While not technically a true "snow" machine, it does produce foamy flakes, that fall back down to the ground just like snowfall. Create a winter themed wonderland, or just add another dimension to your party! The light foamy flakes aren't frozen, so you can use this machine in any moderate temperature to produce the snowy effect. Includes a wireless remote control to control snow output.

1 YEAR WARRANTY

SPECIFICATIONS	AF1221
Power	20VAC @ 50/60Hz
Weight	2.7kg
Power Cable Length	1m
Dimensions	172(W) x 340(D) x 175(H)mm (including handle)

	Cat.	Qty 1+	Qty 4+	Qty 10+
Snow Machine	AF1221	$229.00	$199.00	$179.00
Snow Juice - 5L	AF1222	$28.90	$25.90	$22.90

WATER BASED FOG MACHINE LIQUID 5 LITRE

A lack of fog is like having no bass, it's just no fun. This quality fog juice is water-based and non-toxic, and leaves no oily residue. Large 5L bottle for loads of fog!

- Unscented, environmentally friendly
- Safe, non-toxic, non-irritant, non-flammable
- Water based composition
- Leaves no oily residue

Caution:

- Keep out of reach of children
- Do not swallow
- Do not dilute or add any other fluids or substances
- Use fog generating machinery only in well ventilated areas, not for any other usage

	Cat.	Qty 1+	Qty 4+	Qty 10+
Fog Machine Liquid 5 Litre	AF1223	$79.90	$71.90	$63.90

Special Effects

400W MINI FOG MACHINE

Fog machines provide an extra element for any party. Your party lighting instantly transforms from average lights to laser beams of fun. Watch the light beams dazzle through the fog while the music's playing. It features a remote control button to control fog output as needed.

- Fog juice sold separately (AF1212)

SPECIFICATIONS	AF1220
Volateg	240VAC @ 50/60Hz
Power	400W
Heat-up Time	3 minutes
Tank Capacity	0.3L
Spraying Distance	3.5m
Dimensions	110(W) x 250(D) x 110(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Mini Fog Machine	AF1220	$94.90	$84.90	$75.90
Fog Juice 1 Litre	AF1212	$21.90	$19.30	$16.90

RAVE FOG MACHINE

This tough fog machine will add the extra dimension to any mobile DJ setup, home party or disco lighting - with laser light shows, mirror balls and other party lighting coming out in full effect. The unit produces clouds of white fog on demand with the use of an illuminated 3m wired remote control. Features an adjustable mounting bracket, tough metal construction and fluid gauge.

- 240VAC operation
- 70 cubic metres/min fog output
- 800ml fluid capacity
- 330(L) x 160(W) x 140(H)mm
- Fog juice sold separately (AF1212)

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Fog Machine	AF1214	$179.00	$160.90	$142.90
Fog Juice 1 Litre	AF1212	$21.90	$19.30	$16.90

STRAWBERRY ESSENCE SCENT FOR FOG MACHINES

Strawberry essence additive that provides a more desirable smell to your fog machine. Just add a few drops to the fog juice container on your fog machine, and hey presto, strawberry scented fog!

	Cat.	Qty 1+	Qty 4+	Qty 10+
20ml	AF1211	$24.90	$22.40	$19.90

In-Car FM Audio Transmitters

FM TRANSMITTER WITH USB & SD PLAYBACK

Simply plug in to your cigarette lighter socket, this unit will play MP3 tracks directly through your car stereo through the FM band. Music can be stored on an SD/MMC card, USB memory stick or an external media player (iPods®, MP3 players) can be plugged in via the auxiliary input. It has a backlit LCD and a fully adjustable arm for multi angle viewing. It also remembers the last played frequency, song and volume.

- Accepts SD/MMC, USB or aux input
- FM Frequency: 87.5 to 108MHz
- 12V - 24VDC operation
- Supports folders
- Includes infrared remote control & 3.5mm AUX lead
- Dimensions: 130(L) x 40(W) x 25(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR3136	$19.90	$17.90	$15.90

FM TRANSMITTER WITH BLUETOOTH® TECHNOLOGY & QC3.0 USB

NEW

Stream music and calls to your car's FM stereo with Bluetooth® Technology. Plugs straight into an available 12V or 24V cigarette lighter socket and includes a 1.4" LCD screen on a flexible gooseneck for optimum positioning. A Quick Charge™ 3.0 ultra-fast charging port keeps your smartphone ready for action as well as a standard 1A USB charging port. MP3 or WAV file playback via the microSD card slot or USB port. Internal microphone allows you to have hands-free calls while driving and 3.5mm connection for non-Bluetooth® enabled devices. Auto FM frequency scan and LED battery voltage display when starting up your engine. A remote control provides expanded functionality such as MP3 folder selection, volume and channel control. Includes infrared remote control, 3.5mm to 3.5mm auxiliary cable and a spare fuse.

- Quick Charge™ QC3.0 & 1A Charging Ports
- Hands-Free Calls & Voice Prompt
- USB & microSD Card Playback
- Auto FM Frequency Scan
- Start Up LED Voltage Display
- In-Built Microphone
- 3.5mm Auxiliary Jack

Qualcomm Quick Charge 3.0

Bluetooth

SPECIFICATIONS	AR3142
Display:	1.4" LCD
Bluetooth® Version:	4.2+EDR
Input Voltage:	10-28VDC
FM Frequency:	87.5-108.0MHz
USB/microSD Capacity:	Up to 32GB
USB/microSD Audio Format:	MP3, WMA
USB Output:	3A Max (QC3.0 Charging Port) 1A Max (Music/Charging Port) - 4A Total
Dimensions:	170(D) x 140(H) x 44(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR3142	$45.90	$40.90	$35.90

FM TRANSMITTER WITH BLUETOOTH TECHNOLOGY AND USB

NEW

Stream music to your vehicle's FM stereo untethered with full Bluetooth® wireless functionality. It converts the Bluetooth® wireless signal to FM transmission so you can tune in to your car radio while driving. Frequency is adjustable, displayed on the front which plugs straight into a 12 or 24V spare cigarette lighter socket. Two USB ports are provided for charging your smartphones or tablets, as well as one of the USB ports being for MP3 and WAV file playback. An onboard microphone also gives you full hands-free call functionality.

- Hands-Free Calls & Voice Prompt
- USB & microSD Card Playback
- In-Built Microphone
- Dual USB Charging

Bluetooth

SPECIFICATIONS	AR3140
Display:	0.8" LED
Bluetooth® Version:	4.2+EDR
Input Voltage:	10-28VDC
FM Frequency:	87.5-108.0MHz
USB/microSD Capacity:	Up to 32GB
USB/microSD Audio Format:	MP3, WMA
USB Output:	2.4A Max (Charging Port)
	0.5A Max (Music/Charging Port)
	2.9A Total
Dimensions:	70(L) x 43(W) x 38(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR3140	$28.90	$25.90	$22.90

CD/CASSETTE ADAPTOR

An alternative to using Bluetooth®. Play your portable CD or Smartphone through your car stereo cassette system. Using the headphone socket on your MP3 player or Smartphone.

- No power or batteries required
- Supplied with 1.1 metre lead & 3.5mm stereo plug

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR1760	$21.90	$19.70	$17.30

For next day delivery, or Click and Collect, see page 5

In-Car FM Audio Transmitters

VISOR MOUNT RECHARGEABLE BLUETOOTH® HANDSFREE SYSTEM

Add the safety and convenience of Bluetooth® to a vehicle that doesn't have it from the factory. Attaches to your sunvisor for convenient operation and optimum microphone/speaker location. Supports up to two phones with auto power-off when Bluetooth® connection is lost (i.e. when you walk away from the car with your phone). Internal rechargeable battery with up to 30-days standby time. Added safety with great convenience.

- Bluetooth® 4.0
- Digital power amplifier
- Rechargeable battery
- 30 days standby on full charge
- Connect two phones simultaneously
- Turns off automatically when no Bluetooth® connection detected
- Voice answer
- Noise reduction microphone
- Turns on automatically when car door is opened/shut

SPECIFICATIONS	AR3138
Output Power	2W
Charging Voltage	5VDC
SNR	≥70dB
Frequency Response	180Hz - 16kHz
Distortion	0.5%
Impedance	8ohm
Battery	3.7V @ 600mAh rechargeable Lithium
Weight	93g
Dimensions	115(H) x 60(W) x 48(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Visor Mount Bluetooth	AR3138	$79.90	$71.90	$63.90

In-Car Bluetooth® Transmitters

BLUETOOTH® IN-CAR EARPIECE WITH USB CHARGER

This Bluetooth® unit is tiny and smart. It connects to your Bluetooth® enabled smart device, then sits in your ear like a small earphone to provide hands free communication. It weighs in at just 5g, and features the simplest recharging we've seen. No fumbling with tiny cables, simply push it into the supplied cigarette lighter adaptor. Small magnets will hold it onto the charger but enable quick release when you need it. One 2.1A and one 1A charging ports are included on the charger, to power and recharge your devices.

- Magnetic charging dock - no cables!
- Includes cigarette lighter adaptor
- USB 2.1A and 1A charging ports

1 YEAR WARRANTY

SPECIFICATIONS	AR3135
Earpiece Weight	5g
USB Charging Current	2.1A @ 5VDC, 1A @ 5VDC
Dimensions	23(W) x 26(H) x 27(D)mm (earpiece) 90(L) x 32(Dia.)mm (charger)

	Cat.	Qty 1+	Qty 3+	Qty 6+
In-Car Earpiece	AR3135	$28.90	$25.90	$22.90

SMARTPHONE MEDIA BUTTON

Great for the car, gym or around the house. Sync with your Bluetooth® enabled device for volume, play/pause, and next/previous track control. Extremely light and compact.

- Plug and Play
- Bluetooth® Standards
- Supplied with steering wheel mount

1 YEAR WARRANTY

SPECIFICATIONS	AR3137
Active Range	40m
Battery	CR2016 3V
Dimensions	35(Dia.) x 8(H)mm

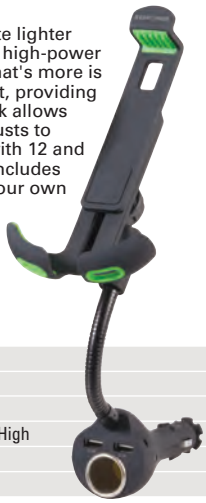
	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR3137	$28.90	$25.90	$22.90

In-Car Handsfree Kits

CAR SMARTPHONE CHARGER HOLDER WITH DUAL USB AND CIGARETTE LIGHTER SOCKET

This is genius! It plugs straight into your cigarette lighter socket to provide a phone holder, as well as two high-power USB charging outlets (up to 4.8A combined)! What's more is it doesn't even use up the cigarette lighter socket, providing you with another one too! The flexible gooseneck allows you to position the phone conveniently, and adjusts to firmly hold just about any phone size. It works with 12 and 24V systems, so suitable for trucks too! It even includes a microUSB charging cable, but you can bring your own for other devices as well.

- 360° rotation
- Dual USB charger
- Suitable for phones with 4- 6.3" screen



SPECIFICATIONS	HS9017
Output	Dual USB 5VDC, 4.8A Max.
Input	12-24VDC
Phone Suitability	44 - 90mm Wide, 113 - 168mm High
Weight	26g
Dimensions	210(H) x 190(W) x 95(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	HS9017	$28.90	$25.90	$22.90

In-Car Mounting Brackets

GOOSENECK SUCTION CUP MOUNT PHONE HOLDER

NEW

Suits most Smartphones and securely mounts to your windscreen or other non-porous flat surfaces with a super strong suction cup. The bracket adjusts to firmly hold your phone in place, while the 190mm flexible gooseneck with 360° rotating ball head allows you to get the phone into the best viewing position. The bracket adjusts between 58mm and 80mm for phones, which is generally suitable for phones with 3.5" to 5.3" screens.

- Flexible gooseneck
- Universal phone compatibility
- Suits 3.5-5.3" screens with a maximum phone width of 80mm
- Phone Suitability: 58-80mm wide
- Dimensions: 80(H) x 285(L) x 40(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suction Mount	HS9048	$28.90	$25.90	$22.90

PHONE HOLDER - AIR VENT MAGNETIC

1 YEAR WARRANTY

This simple device allows you to easily hold your smartphone in a convenient position (for use when safely parked of course). The mount itself simply slips firmly onto the grilles of your air-vents. You then have two options: use the small (40mm Dia.) adhesive mounting plate, or slip the 40 x 60mm mounting plate inside your protective case. Both mounting places are just a fraction of a millimetre thick and weigh barely 1 gram, so you won't even notice it's there. Then by simply putting your phone close to the magnetic holder, it will firmly snap into place. Simply pull to remove! No clips, cradles, or other inconveniences. The magnetic mount itself is also rubber-moulded so the strong magnet won't scratch your phone (or phone case). Product may differ slighty to one shown.

SPECIFICATIONS	HS9057
Adhesive Mounting Plate	40(Dia.)mm
Non-Adhesive Mounting Plate	40(W) x 80(H)mm
Dimensions	44(Dia.) x 37(D)mm, 32g

	Cat.	Qty 1+	Qty 3+	Qty 6+
Air Vent Magnet	HS9057	$24.90	$22.40	$19.90

In-Car Mounting Brackets CONTINUED

MAGNETIC MOBILE PHONE HOLDERS

No more adjusting clamps or clips with these magnetic mobile phone holders! The high strength magnet holds the phone in place allowing for quick placement and removal. Available in three versions with a suction or adhesive mount for the vehicle, all versions include an adjustable ball joint so you can tilt the phone to the optimal viewing angle. Suction mount models also include metal plates for attaching to phones without a non-magnetic housing. Plates are also thin enough to be inserted between phone and an existing protective case.

SHORT ARM SUCTION MOUNT HS9054
- Mounts the phone close to the suction cup
- 60mm arm length
- 65mm diameter suction cup

LONG ARM SUCTION MOUNT HS9055
- Extends the phone away from the suction cup
- 160mm flexible arm length
- 65mm diameter suction cup

MINI BALL JOINT ADHESIVE MOUNT HS9056
- Attaches unobtrusively to most surfaces
- 3M brand adhesive on ball joint base and magnet
- 30mm mount height
- 25mm diameter base

Smartphone not included.

HS9055

HS9054

HS9056

	Cat.	Qty 1+	Qty 3+	Qty 6+
Small	HS9054	$24.90	$22.40	$19.90
Large	HS9055	$24.90	$22.40	$19.90
Magnetic Dash Phone Holder	HS9056	$24.90	$22.40	$19.90

SPRING CLAMP SUCTION MOUNT PHONE HOLDER

1 YEAR WARRANTY

Suits virtually any smartphone, and securely mounts to your windscreen or other non-porous flat surface with a super strong suction cup. The bracket adjusts to firmly hold your phone in place. The ballhead allows total 360° rotation. Bracket adjusts between 55 and 80mm.

- High strength suction cup
- Universal phone compatibility
- 360° rotation
- Weight: 65g
- Dimensions: 125(L) x 75(W) x 95(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Suction Mount Phone Holder	HS9039	$24.90	$22.40	$19.90

AIR VENT PHONE CRADLE WITH WIRELESS QI CHARGING

NEW

Connecting the charging cable has always been a bit of a pain when using docks and cradles. This mount takes away that hassle! It clips to virtually any air vent in your vehicle, then the dock itself is connected to a power outlet in your vehicle. Now, any time you dock your Qi supported smartphone, it will automatically charge. Brilliant!

- Universal
- Easily detachable base
- Supports fast charge
- Works with latest phone models

SPECIFICATIONS	HS9058
Qi Standard	1.2.3 standard
Input	5VDC @ 2A 9VDC @ 1.7A
Output	Standard Charging: 5W Fast Charge: 10W
Charging Distance	≤10 mm
Charging Efficiency	≥83%MAX
Weight	103g
Dimensions	90(H) x 66(W) x 45(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Wireless Qi	HS9058	$56.90	$50.90	$44.90

UNIVERSAL AIR VENT MOUNT PHONE HOLDER

A universal phone holder which simply clips onto an air vent to secure in place. The push release clamp provides extra strength and support when installing on an air vent compared to traditional vent mounts. The 360° adaptive ball mount means you can position the phone to just about any angle. Simple to use and totally universal.

NEW

- 360° Rotation
- Installs in Seconds
- Universal Installation to Many Vehicles
- Adjustable Width: 55-80mm
- Supported Phone Size: 3.5-6.3"

	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS9046	$22.90	$20.90	$17.90

12VDC CHARGER CRADLE FOR IPHONE® 3/4

Holds and charges your iPhone® as you drive. The holder plugs directly into the car cigarette lighter and has charging cradles to suit both iPhone® generations and a universal holder for other types of mobile phones. The iPhone® cradle doubles as a protector case whilst out and about and docks securely into the holder bracket when you get back in the car.

1 YEAR WARRANTY

- Power: 12VDC
- Includes a case/cradle for both iPhone®3 & 4

Note: iPhone® not included.

	Cat.	Qty 1+
Charging Cradle	HS9012	$4.50

AUXILLARY EXTENSION CABLE WITH MOUNT

Avoid having to reach behind your desk, TV cabinet, or Hi-Fi system just to connect your audio cable. This universal stereo 3.5mm adaptor can be used for inputs (such as your iPod® to an AUX input) or outputs (such as the headphone output). Simply plug and play, and optionally fasten the bulkhead for extra security. Works with mono input/outputs also. Plug and play.

- 3.5mm plug to 3.5mm socket
- Socket enclosed in mount
- 2m long

	Cat.	Qty 1+	Qty 3+	Qty 6+
2m	AA0411	$10.90	$9.90	$8.90

AUXILLARY & USB EXTENSION CABLE WITH MOUNT

This is a very handy device to make connections easier. It can be attached to a computer, Hi-Fi system, or anything else you can think of. It has no electronics inside, providing full throughput with no power requirements. A 2m cable connects the USB and 3.5mm plugs to the sockets, which are mounted into a single enclosure with a bracket included. This provides you with flush-mount and surface-mount options, while a dust-cap is included to help keep dust out while not in use.

- 3.5mm plug to 3.5mm socket
- USB plug to USB socket
- 2m long
- Dust cap included

	Cat.	Qty 1+	Qty 3+	Qty 6+
2m	AA0412	$16.90	$14.90	$13.90

For next day delivery, or Click and Collect, see page 5

In-Car Mounting Brackets CONTINUED

UNIVERSAL TABLET HEADREST MOUNT

Almost totally universal to fit any car and any tablet (well, just about). It will fit headrests with support posts between 40mm and 170mm apart (basically any car). You can then install your tablet between 120 and 195mm high (that's a lot of tablets too). Tighten all the adjustable components and your tablet is held firmly in place with the padded, non-slip clamps. You can rotate the tablet 360° thanks to a strong ball-joint, and also tilt/swivel the tablet approximately 60° to your liking.

- Padded clamps to protect your device
- 360° rotating ball-joint
- Fits just about any vehicle

1 YEAR WARRANTY

SPECIFICATIONS	HS9033
Clamp Height	120 - 195mm adjustable
Headrest Compatibility	40 - 170mm wide
Weight	185g

	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS9033	$24.90	$22.40	$19.90

HEAVY DUTY SUCTION MOUNT TABLET HOLDERS

Accommodates a variety of different sized Smartphones and Tablets for your car, truck, or van. The holding vice (sides and bottom) can be slid out of their grooves and moved to a wide or narrow grip. Features a suction mount for an extremely tight grip on a window or dash surface.

- Compatible with iPad®, Android®, surface Tablets
- Dimensions: 190(H) x 140(L) x 140(W)mm

Note: iPad® not included.

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Lockable Joint	HS9036	$48.90	$44.00	$39.10
Flexible Gooseneck	HS9034	$42.90	$38.60	$34.30

marine audio:

Jaycar has been selling direct-import audio products for almost 30 years. In that time we have sold tens of thousands of general, Hi-Fi and car sound speakers, Home Cinema products, MP3 players, and thousands of car and marine head units. We have developed an expertise with specialty buying staff and long-term relationships with factories that we can trust. In these pages you will find products that are not national brand names (Many of the factories that we use actually make a lot of the national brand names, but we are legally prevented from telling you who they are). When Jaycar negotiates with a factory, we specify what we think is useful to you and what is rubbish (like rainbow coloured lighting displays). In buying such products from us, you get the same (or better) warranties, but the bonus sensible-specification products from a firm with a strong engineering background.

IN-DASH MARINE AM/FM RADIO WITH MP3 PLAYER

3 YEAR WARRANTY

An attractive marine radio perfect for your boat but can be used for automotive purposes. In addition to standard AM/FM radio the front panel includes USB & SD card slots which allow playback of MP3s. There's also a 3.5mm auxiliary port so you can connect an iPod®, headphones, or Smartphone for playing back music. The unit can be controlled with the infrared remote or front panel interface. For audio tinkerers, a myriad of settings are available including bass, treble, balance, and fade settings. There are also rock, pop, and classical equalisation pre-sets to suit your taste in music. Installation is straightforward, just connect via the supplied 14pin plug, all speaker cables are labelled to streamline the install. The USB, SD card and AUX sockets all come with splashproof silicone covers.

- MP3/USB/SD Player
- Rust-resistant chassis
- ISO/DIN mountable
- Electric Detachable Panel
- UV-resistant faceplate and trim ring
- 3.5mm front panel aux input
- USB/SD front panel input
- Wireless infrared remote
- Power: 8.25WRMS - 8 Ohm x 4 13WRMS - 4 Ohm x 4
- Dimensions: 189(L) x 117(W) x 57(H)mm

Waterproof cover also available - QM3819.

QM3819

QM3815

CAN BE USED FOR AUTOMOTIVE PURPOSES

	Cat.	Qty 1+	Qty 2+	Qty 4+
Marine Radio	QM3815	$119.00	$106.95	$94.95
Waterproof Cover	QM3819	$19.90	$17.90	$15.90

MARINE AUDIO PACKAGE #1

- Combines our Marine Radio (QM3815) with our 5" Marine Speakers. (CS2410)

	Cat.	Qty 1+
Marine Radio & 5" Speakers	QM3816	$134.90

MARINE AUDIO PACKAGE #2

- Combines our Marine Radio (QM3815) and our 6.5" Marine Speakers. (CS2412)

	Cat.	Qty 1+
Marine Radio & 6.5" Speakers	QM3817	$149.00

5" & 6.5" MARINE COAXIAL SPEAKERS

2 YEAR WARRANTY

A pair of marine worthy speakers designed to withstand the demands of ocean use and provide excellent audio quality in your boat. Both models feature high salt and UV resistance and are fully splash proof thanks to the special indented design.

SPECIFICATIONS	CS2410	CS2412
Frequency	80-20KHz	65-20KHz
Max Power	100W	120W
Impedance	4 ohms	4 ohms
Midrange And Tweeter	30mm Mylar Dome Tweeter	35mm Mylar Dome Tweeter
Dimensions: See page 501 for chart	A=150mm, B=135mm, C=111mm, D=45mm	A=180mm, B=164mm, C=128mm, D=60mm

		Cat.	Qty 1+	Qty 4+	Qty 10+
5"	Pair	CS2410	$43.90	$39.40	$34.90
6.5"	Pair	CS2412	$59.90	$54.00	$47.90

where's my local Jaycar store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

Car Antenna Hardware

STANDARD LOCKDOWN

- 4 section
- Extends to 770mm
- Cable length 1.2 metre

Cat.	Qty 1+	Qty 4+	Qty 10+
AR3250	$10.90	$9.50	$8.50

RUBBER TOPMOUNT

- Small rubber antenna bends when it hits something.
- Good for 4WDs etc
- 1 section
- Length 350mm
- Cable length 1.2 metre

Cat.	Qty 1+	Qty 4+	Qty 10+
AR3260	$21.90	$19.30	$16.90

CAR AERIAL EXTENSION

Need a longer aerial lead in your car? 3m long.

- Standard aerial socket to plug

Cat.	Qty 1+	Qty 4+	Qty 10+
AR3253	$10.90	$9.50	$8.50

CAR RADIO ANTENNA LINE PLUG

- Solder type
- Standard antenna plug

Cat.	Qty 1+	Qty 4+	Qty 10+
PP2040	$1.90	$1.70	$1.50

CAR RADIO ANTENNA LINE PLUGS

SOLDERLESS CAR RADIO ANTENNA LINE PLUG

Replacement or connector for new antenna installation.

CAR RADIO ANTENNA LINE PLUG

- Solder type with plastic strain relief

	Cat.	Qty 1+	Qty 4+	Qty 10+
Solderless	PP2044	$3.90	$3.10	$2.70
Solder type	PP2041	$3.00	$2.60	$2.30

SOLDERLESS CAR RADIO INLINE SOCKET

Cat.	Qty 1+	Qty 4+	Qty 10+
PS2046	$4.90	$4.10	$3.70

CAR RADIO ANTENNA ADAPTOR PLUG

Converts Motorola to European style antenna sockets.

Cat.	Qty 1+	Qty 4+	Qty 10+
PA2048	$5.90	$5.20	$4.70

CAR RADIO ANTENNA ADAPTOR PLUG

Converts European style antenna plug to Motorola style antenna plug.

Cat.	Qty 1+	Qty 4+	Qty 10+
PA2038	$5.90	$5.20	$4.70

acoustic sound absorbing & deadening:

Ideal for car sound installations. One of the most hostile environments for a loudspeaker is in the door of a car. It is made out of flexible sheet steel which, when it is not vibrating & absorbing energy by rattling or buzzing, is reflecting energy all over the place! To produce Hi-Fi sound in a car you not only need to control the acoustics of the car environment. As any professional will tell you, it's the installation which makes for sound quality more than any other factor.

HEAVY DUTY SOUND BARRIER DAMPING MATERIAL

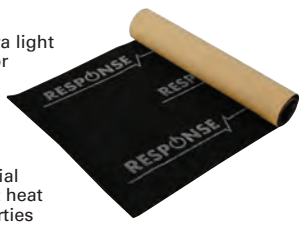
This is basically a flexible plastic-like material that forms an attenuating / reflecting sound barrier. The product is made of 25% PVC loaded and spread evenly with barium mineral powder which takes up the other 75% (by weight) of the product. The barium mineral is very heavy and makes the vinyl heavy and impenetrable to sound waves. It's sort of like if lead was plastic! It weighs 4kgs per square metre. It is ideal for any surface that needs to be 'deadened' e.g. car door or floor panels. It completely damps (ie prevents) any panel resonating from high power speakers. It is also amazing for attenuating road noise from steel car floors, etc. It can be cut with a hobby knife or good scissors etc. The material is held in place with spray or gel contact cement. One sheet is generally enough for the average car door. Supplied in a polyethylene bag.

SPECIFICATIONS	AX3680
Sound Transmission Class	26
Humidity	Unaffected
Stability	Indefinite
Sheet	700 x 330 x 2.3mm thick (approx)

CHEMICAL RESISTANCE		MECHANICAL PROPERTIES	
Petrol/Diesel	Moderate	Density	1.74 g/cm3
Acetone	Good	Tensile	3000N/50mm
10% HCl	Good	Elongation	<0.2%
10% NaOH	Poor	Working Temp	0°C to 95°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
Per Sheet	AX3680	$17.90	$16.10	$14.30

SELF-ADHESIVE SOUND ABSORBING FOAM



The perfect ultra light weight insulator to use in conjunction with AX3687. This durable crush and tear-resistant material has the highest heat blocking properties available in a single layer synthetic foam-type material. Not affected by oil and does not absorb water. It provides acoustic isolation and excellent thermal insulation for roof, firewall, floor, quarter panels, doors and even as an under bonnet liner. Adhesive backed for easy installation.

- Dimensions: 660 x 330mm / Thickness: 5mm
- Temperature range: -15 - 100°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX3662	$17.90	$15.90	$14.30

BUTYL BASED SOUND DEADENING MATERIAL

By adding weight to the metal panels of your car, such as door skins, boot lids, quarter panels, etc. you can stop nasty vibrations, reduce road noise, and give your doors and boot a nice solid "thud" when they shut. Each sheet is self-adhesive, and can be easily moulded, cut and stuck onto virtually any metal surface of your vehicle's body, giving you a pleasant, quiet and comfortable ride. Combine with our AX3662 Sound Absorbing foam to add thermal insulation and eliminate low frequency humming from big exhaust systems for an even more comfortable vehicle interior.

- Dimensions: 900 x 330mm / Thickness: 1.5mm
- Temperature range: -10 - 110°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX3687	$36.90	$33.20	$29.50

COMBINATION BUTYL/FOAM SUPER SOUND DEADENER

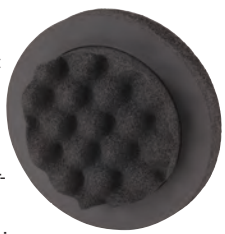
Consisting of a layer of our AX3687 Butyl Based sound deadener and a 3.0mm thick layer of honeycomb foam (similar to our AX3662), lining the cabin of your vehicle with these sound deadening sheets will give you drastically reduced road noise, less panel vibration and a cooler cabin temperature. Application is easy with the self adhesive backing and ability to mould to the shape of the panel. Ideal for door skins, head linings, door cards and under bonnet insulation.

- Dimensions: 660 x 330mm / Thickness: 4.5mm butyl, 3.0mm foam)
- Temperature range: -10 - 100°C

	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX3689	$36.90	$33.20	$29.50

SOUND RING - SPEAKER SINGLE DOOR KIT

Sound rings help optimise sound waves and prevent losses inside the door cavity. They're easily installed and will improve the sound of factory and after-market speakers.



- Foam
- 3M adhesive backing
- Outer ring and inner Circle

SPECIFICATIONS	AX3667
Weight	37g (Per Ring)
Dimensions	Ring: 195(Dia.) x 25(D)mm HoleCircle: 140(Dia.) x 45(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AX3667	$45.90	$40.90	$35.90

For next day delivery, or Click and Collect, see page 5

car speakers:

Low cost doesn't mean low quality. Coax speakers are an ideal replacement for the standard speakers you get in the average car. All are equipped with titanium coated fibre woofers and silk dome tweeters for smooth high frequency response. Sold as a pair.

4" COAX 2 WAY

CS2310

5" COAX 2 WAY

CS2312

6.5" COAX 2 WAY

CS2314

6 X 9" COAX 2 WAY

CS2316

SPECIFICATIONS	CS2310	CS2312	CS2314	CS2316
Power Handling	15WRMS	17WRMS	22WRMS	27WRMS
Nominal Impedance	4Ω	4Ω	4Ω	4Ω
Frequency Response	90Hz - 18kHz	70Hz - 18kHz	60Hz - 20kHz	55Hz - 18kHz
Sensitivity	83dB SPL @1W, 1m	85dB SPL @1W, 1m	88dB SPL @1W, 1m	86dB SPL @1W, 1m
Qms	3.2	4.28	4.88	4.76
Qes	1.85	1.88	1.5	1.57
Qts	1.18	1.31	1.15	1.18
Vas	1.45 litres	3.31 litres	10.18 litres	17.3 litres
Fo	122Hz	106Hz	75Hz	61Hz

2 YEAR WARRANTY

A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	115	93	42	CS2310	$39.90	$35.90	$31.90
130	138	115	44	CS2312	$45.90	$40.90	$35.90
166	158	142	52	CS2314	$56.90	$50.90	$44.90
236 x 165	205	218 x 148	75	CS2316	$79.90	$71.90	$63.90

kevlar coaxial car speakers:

These are our ever popular Kevlar Coaxial Speakers that have won many awards and magazine recommendations in the past, only with a new look. The Kevlar speaker cone is now supplied in Black but it still retains its outstanding performance that we are all accustomed to. The tweeters are still the original soft dome tweeter that provide clean, crisp sounds and maintains a natural and smooth balanced sound; nestled in an adjustable bracket for optimal sound trajectory. Virtually unchanged in design and performance, we have put our efforts in changing one thing; the price. Now at a more competitive price points; these coaxial speakers are great value for money topped with award winning performance. Sold as a pair.

All models are paired with Soft Dome Tweeters!

4" KEVLAR/DOME TWEETER 2 WAY

CS2400

5" KEVLAR/DOME TWEETER 2 WAY

CS2401

6.5" KEVLAR/DOME TWEETER 2 WAY

CS2402

SPECIFICATIONS	CS2400	CS2401	CS2402
Power Handling	40WRMS	50WRMS	75WRMS
Nominal Impedance	4Ω	4Ω	4Ω
Frequency Response	90Hz - 20kHz	60Hz - 20kHz	65Hz-20kHz
Sensitivity	88.5dB SPL @ 2.83V, 1m	89dB SPL @ 1W, 1m	89dB SPL @ 1W, 1m
Qms	5.478	5.6	6.423
Qes	0.935	0.652	1.108
Qts	0.798	0.584	0.945
Vas	3.079 litres	7.87 litres	9.208 litres
Fo	91.97Hz	68.5Hz	71Hz

2 YEAR WARRANTY

A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	90	47	45	CS2400	$99.90	$89.90	$79.90
130	118	64	60	CS2401	$139.00	$124.90	$110.90
178	157	135	65	CS2402	$159.00	$142.90	$126.90

12 PIECE AUDIO AND INTERIOR REMOVAL KIT

Those of us, who have installed a pair of speakers or a head unit, know how difficult it can be to get the door panels and centre consoles off without scratching them. By using the right tools the job is made much easier! This set of pry bars allow you to remove all the panels including those upholstery clips. They are made of ABS plastic and are extremely sturdy. This professional kit includes 12 distinctive tools designed to suit any car model.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH2339	$24.90	$22.40	$19.90

Active Subwoofers

CAR BOOM BOX WITH AMPLIFIER

Get the party started wherever you are! This amazing boom box feature mains power, as well as 12V power. That means the same great sound can be enjoyed at home, in the car, even a campsite using a battery! It has a fantastic 6" woofer and powerful tweeter, for great overall sound. You can play your favourite music source using the various inputs: RCA or 3.5mm (analogue stereo), USB flash drive, or a MicroSD card slot. If that's not enough, Bluetooth® streaming is provided! There's onboard audio controls, as well as a convenient remote control included.

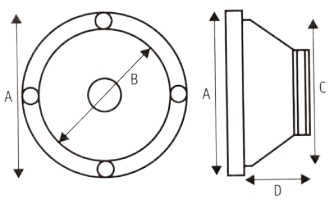
- Stereo RCA line-in
- 6" subwoofer
- 1200 watts PMPO output
- USB & microSD card input
- Carry handle
- FM radio
- Remote control

SPECIFICATIONS	QM3410
Power	12VDC
Frequency Response	50Hz - 200kHz
Impedance	4"
Weight	2kg
Dimensions	400(W) x 220(H) x 195(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Car Boom Box with Amplifier	QM3410	$69.90	$62.90	$55.90

tech talk — Notes About Speaker Specifications

- In an effort to assist customers choices between speakers, our entire speaker range have been assessed and measured under the same test conditions. Therefore making the resulting data in this catalogue comparable.
- All drivers have been measured for Thiele and Small parameters after a period of "Breaking In" for a minimum of 15 hours, and not tested straight off the shelf. This ensures a more long term and realistic result.



A = From one side to the other

B = Mounting Holes - Diagonal

C = Cut Out in millimetres

D = Depth

Car Audio Accessories

LINE LEVEL CONTROL (ATTENUATOR)

1 YEAR WARRANTY

This unit when fitted in a signal line allows you to adjust downwards excessive signal levels. You may have, for example a source from a CD/ MP3 player and a tuner. Often one source is too loud (at line level) to the other.

- Stereo
- RCA line sockets in/out
- Dimensions: 60(L) x 55(W) x 37(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA3078	$12.90	$11.30	$10.30

CAR RADIO SUPPRESSOR

Traditional condenser type.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA3060	$4.90	$4.10	$3.70

Ground Loop Isolators

GROUND LOOP ISOLATOR (STEREO) 3.5MM

1 YEAR WARRANTY

Used to eliminate ground loop problems in audio installations. The unit has a 3.5mm stereo sockets on both ends. Suitable for use with laptops, mp3 players, iPods® etc. Note: Units AA3074/78/84 & 86 can be fastened to any surface, fitting etc. by simple cable ties.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA3086	$13.90	$12.50	$11.10

GROUND LOOP ISOLATOR (STEREO) RCA

1 YEAR WARRANTY

Used to eliminate ground loop problems (usually manifested as a low hum) in audio connections. The earthing brown ground wires sometimes helps even more.

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA3084	$12.90	$11.30	$10.30

SPEAKER (HIGH LEVEL) TO LINE LEVEL CONVERTER

1 YEAR WARRANTY

Converts high level (high power) speaker signals back down to low level (i.e. line or <1volt signals). You can then use those signals as line inputs to amps without potential damage to amps or other speakers. Features variable attenuators to reduce signal up to 6 times.

- RCA socket out (stereo)
- External dimensions: 90(L) x 35(H) x 57(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA0482	$18.90	$16.70	$14.70

Car Noise Filter

10A DC NOISE FILTER

1 YEAR WARRANTY

Arrests any noise on the DC power supply to car stereos, CBs etc. better than ever. Most importantly it enables the installer to mount the unit without drilling mounting holes. You can secure this unit with cable ties. It will also "saddle" on a wiring loom if necessary. Has 10A rated + & - DC leads & separate earth lead which should be terminated to chassis.

- Dimensions: 90(L) x 60(W) x 33(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
10A	AA3074	$18.90	$16.70	$14.70

tech talk — Car Noise Filters

Car noise filters or hot line filters are used to reduce noise and interference entering your car stereo through the power lead. The car alternator is one of the most common sources of problems, and these essential devices can help to reduce this.

tech talk — DIY Car Installation

When it comes to DIY car installation Jaycar carries the best range of accessories and wiring materials around. For example, we have automotive wiring from 3A rating up to hundreds of amps. We have circuit breakers, terminal boxes, sound insulation, tools - well, everything! It would be really worth your while to have a comprehensive read. You will be staggered by our range of products!

For next day delivery, or Click and Collect, see page 5

Car Accessories

2 CHANNEL LINE LEVEL CONVERTER

1 YEAR WARRANTY

Connects to the speaker output of your car's head unit and converts the high level speaker output to a high quality line level output for the aftermarket car amplifier. This device boosts the output signal up to 10V RMS (Peak); an improved signal quality less prone to interferences and produces better quality and powerful sound. It also provides a remote output to turn on the amplifier and other audio components. It features a Molex plug that makes the whole installation process quite easy.

- Super low distortion
- Adjustable output step down
- Adjustable line level output up to 10V
- Quick auto signal sense turn on
- Remote output trigger
- Dimensions: 120(W) x 76(H) x 26(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
AA0416	$39.90	$35.90	$31.90

4 CHANNEL HIGH QUALITY LINE LEVEL CONVERTER

1 YEAR WARRANTY

An improved speaker to line level converter solution over the low cost and poor performance transformer type. This premium 4 channel LOC offers low distortion and exceptional power handling of up to 150W. Individual output gain controls are available and has a remote output for amplifier trigger. Uses a Molex plug and wiring harness for quick and simple installation.

- Super low distortion
- Adjustable output
- 150W Maximum input
- Remote output trigger
- Dimensions: 93(W) x 105(H) x 29(D)mm

Cat.	Qty 1+	Qty 3+	Qty 6+
AA0418	$54.90	$49.40	$43.90

QUICK RELEASE CAR AUDIO POWER CONNECTOR

Designed to offer safe and fast removal of your high power car audio, secondary battery or other high current DC set up. Acts as a heavy duty quick release plug and socket that connects positive, negative and remote wires. It has two components - one end to connect to your equipment and the other to your power source. Capable of handling up to 140A. Comes with a bracket for secure mounting.

- Dimensions: 62(L) x 48(W) x 31(D)mm

Cat.	Qty 1+	Qty 4+	Qty 10+
HC4067	$39.90	$35.90	$31.90

CAR AMPLIFIER WIRING KIT

A complete 8G wiring kit for installing an amplifier into your vehicle. Save money over buying the individual components and ensure you have all the parts for installation. Everything you need, down to the cable ties and screws.

- 6m x 8G power cables
- 9m x 16G speaker wire
- 5.2m stereo RCA interconnect
- 5.2m 18G remote wire
- Gold plated fuse holder
- 40A fuse
- Loom tubing, gold plated crimp connectors, grommets, cable ties, and self-tapping screws

Cat.	Qty 1+	Qty 4+	Qty 10+
AA0442	$79.90	$71.90	$63.90

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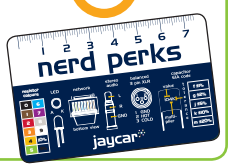

Monitors

7" TFT LCD WIDESCREEN COLOUR MONITOR WITH IR REMOTE

This 7" TFT Widescreen LCD Monitor delivers high resolution pictures in widescreen format and clear sound reproduction through its inbuilt speaker. It is extremely lightweight and is suitable for all sorts of mobile and fixed monitoring applications. Suitable for in-car and home entertainment, use it to watch DVDs, PS2®, XBOX®, etc. can be used for monitoring or surveillance purposes.

Two RCA composite video inputs and one audio input are provided for a multi source system. This is truly a versatile monitor, it has low power consumption, wide viewing angle, and is NTSC and PAL compatible. It is equipped with On Screen Display enabling the user to easily control the colour, contrast, hue, brightness, and volume. A very slim and small infrared remote control is included.

It has reverse image capability adjustable by pressing a button. The mirror-image function on this unit makes it ideal for buses with a camera to view behind while reversing. Unit comes with an adjustable swivel bracket with double sided tape for adhesion on clean flat surfaces. A 4 pin mini din to 2 RCA and power cable is also supplied.

**Works with most, but not all widescreen sources. Will default to modified widescreen in some cases.*

1 YEAR WARRANTY

SPECIFICATIONS	QM3752
System	NTSC/PAL
Power Input	12-24VDC
Power Consumption	10W
Screen Size	7inch (diagonal width)
Display Method	TFT Active Matrix System
Resolution	1140(h) x 234(v)

IDEAL FOR TRUCKS

WIRELESS STEREO HEADPHONES TO SUIT

Add a pair of wireless headphones and enjoy automotive bliss. Soft cushioned earpads for comfort, switchable between channel A & B.

SPECIFICATIONS	AA2047
Driver Diameter	27mm
Nominal Impedance	32 ohms
Frequency Response	120Hz - 20kHz
Sensitivity	100dB

	Cat.	Qty 1+	Qty 2+	Qty 4+
7" Colour Monitor	QM3752	$149.00	$134.90	$119.90
Wireless Headphones suit QM3752	AA2047	$47.90	$42.90	$38.40

9" HIGH RESOLUTION AUTO LCD MONITOR WITH HDMI INPUT - 12/24V

1 YEAR WARRANTY

Ideal for the car or truck this 9" display monitor supplied with anti-glare shield to improve visibility during daylight. It incorporates composite RCA and HDMI inputs making it an ideal monitor solution for security, reversing or multimedia entertainment. Supplied with power cable and user manual.

SPECIFICATIONS	QM3874
Screen Size	9"
Screen Ratio	16:9
Resolution	RGB 800 x 480
Backlight	LED, 250cd/m²
Contrast	500/1
View Angle	Up 50°, Down 70°, Left 70°, Right 70°
System	NTSC & PAL (Auto switch)
OSD Control	Brightness, Contrast, Colour, Volume
Power	12-24VDC, 7W
AV Input	2 way video input, 2 way audio input
HDMI Input	1 x HDMI input (including audio)
Dimensions	240(W) x 163(H) x 26(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
9" Colour Monitor with HDMI	QM3874	$269.00	$239.00	$209.00

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outdoor:

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We said it before and we will say it again. We love our gadgets!

Jaycar was one of the very first companies in Australia, for example, to sell drones. Even though we still have a strong presence in drone technology, they are absolutely everywhere now.

But we are always on the lookout for technology breakthrough products. For example, we now have a range of portable automotive type Fridge/Freezers. Big deal you say? Well, these products have been previously dominated by Japanese and European manufacturers who kept the price very high. They had German-made compressors in them even though the fridges themselves were assembled in Asia.

We have finally located an Asian supplier who has developed a refrigeration compressor (the heart of a fridge) that has the quality and reliability that matches the European standards, BUT the price!

If you are in the market for a portable refrigerator, you can now save up to 50%, yes 50% over the cost of a European brand. You simply, cannot ignore this as we (Jaycar) are offering the same warranties as the European models. Check the strong lineup in the following pages.

We also have noteworthy additions to our range of Wireless Weather Stations. Some feature special transmitter frequencies which are both more reliable and offer extra range from the outdoor station. Others show significant savings over last year.

There are new drones and helicopters this year as well as an expanded range of action cameras.

We are sure you will enjoy this part of the catalogue.

rugged, high quality compressor fridge / freezers

Keep your food fresh and drinks cold for the duration of the trip. A removable divider allows you to operate the fridge either as a large single zone or two smaller zones, with the ability to independently control the temperature of each zone. Capable of being powered by either 12/24VDC or 240VAC, they are a fantastic solution for 4WD, camping, caravanning or any other outdoor adventure.

An LCD screen with touch controls allow you to set the temperatures between -20°C and +20°C (with ambient temperature at 25°C). A separate temperature setting sets either the left or right section to be up to 15°C colder than the chiller section. The display also indicates the battery voltage.

There's even a USB port to keep your phone and other USB powered devices charged.

- Dual fridge and freezer zone
- AC or DC power connections
- High-efficiency DC compressor and conversion module
- Dual mode operation (Max & Economy)
- Digital temperature display with adjustable control
- 3 Year Warranty
- 3-stage low voltage battery protection
- Handle and wheels
- USB port to charge USB devices
- R134a Refrigerant
- Average power consumption over 24 hours is 24Ah (ambient temp 25°C, fridge temp set at 5°C)

NEW

3 YEAR WARRANTY

Capacity	Dimensions	Cat.	Qty 1+
36L	368(H) x 723(L) x 360(D)mm	GH1640	$449.00
50L	458(H) x 723(L) x 360(D)mm	GH1642	Not available in New Zealand
60L	548(H) x 723(L) x 360(D)mm	GH1644	Not available in New Zealand

For next day delivery, or Click and Collect, see page 5

Thermoelectric Cooler & Warmers

7.5L 12VDC COOLER / WARMER

Use as a cooler to keep canned drinks, bottled drinks, sandwiches, fruit and salads fresh and cold without using ice or cold packs. No more digging around icy water for soggy foods and dripping drinks. Also ideal for storing temperature sensitive medicines when travelling.

Use as a warmer to keep pre-packaged/pre-heated meals, take out foods, soups and stews, leftovers, baby food jars and baby bottles safe and warm, ready to eat while on the road.

- Compact, lightweight unit ideal for travel
- Perfect for day trips, picnics, lunches or the beach
- Thermoelectric system cools or warms below or above the ambient temperature
- Insulated construction helps keep contents cool or warm, even after disconnecting from the power source
- Capacity 7.5 litres (equivalent to 11 cans of soft drink)
- Can fit 600mL bottles standing inside
- Suitable Power Supply 12VDC, 5A Cat GH1379

SPECIFICATIONS	GH1366
Voltage	12VDC
Current Draw	4A
Minimum Temperature	18°C - 20°C below ambient temp°C
Maximum Temperature	Approx 60°C
Capacity	7.5L
Fused Plug	10A
Dimensions:	310(W) x 295(H) x 177(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
7.5L	GH1366	$99.90	$89.90	$79.90

14L 12VDC PORTABLE COOLER / WARMER

Here's a great way to keep your food and drink cool or warm in the car. It is extremely low noise and uses full foam insulation to keep it lightweight and portable. 12VDC powered, so it's simply a matter of connecting to your cars cigarette lighter socket and switch on either cooling or warming mode. Will fit a bottle of white wine or 2L bottle of milk lying down.

- CFC free

SPECIFICATIONS	GH1373
Voltage	12VDC
Minimum Temperature	18°C - 20°C below ambient temp
Max Temperature	55°C
Capacity	14L
Power Usage Warming	38W
Power Usage Cooling	46W
Dimensions	495(L) x 310(W) x 270(H)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
14L	GH1373	$149.00	$133.90	$118.90
Replacement Lead	PP1986	$24.90	$22.40	$19.90

tech talk — Thermoelectric Heating/Cooling

This technology uses the "Peltier Effect" to increase or decrease temperature. It is fully solid state and is very reliable. It is quite inexpensive as it does not use gas compressor technology. The amount of temperature differential from ambient, is however, fairly modest. If you really want massive chilling or freezing capacity, you are better of saving your pennies and buying a compressor-type unit like above.

Replacement Fridge Leads

REPLACEMENT LEAD FOR PORTABLE FRIDGES

- Suits cigarette and merit sockets

SUITS WAECO FRIDGES
PP1982

SUITS ENGEL FRIDGES
PP1984

Suits	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
Waeco	1.8m	PP1982	$24.90	$22.40	$19.90
Engel	1.8m	PP1984	$24.90	$22.40	$19.90

REPLACEMENT POWER LEAD FOR THERMOELECTRIC COOLER/WARMER

A replacement DC power lead to suit most common thermoelectric cooler/warmers which have the notched rectangular shape DC power input. Can fit into cigarette or merit sockets.

Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	PP1986	$24.90	$22.40	$19.90

Switchmode Power Supplies

SWITCHMODE - MAINS TO CIGARETTE LIGHTER SOCKET 12V

For powering 12V equipment such as car coolers and camping fridges from a mains AC power source. Supplied with a 1.5m output lead with cigarette socket output, making connection simple and easy. Input voltage: 240VAC.

12VDC 7.5A CAT. MP3575
Dimensions: 157(L) x 90(W) x 57(H)mm

12VDC 12.5A CAT. MP3573
Dimensions: 200(L) x 100(W) x 65(H)mm

1 YEAR WARRANTY

Current	Cat.	Qty 1+	Qty 5+	Qty 10+
7.5A	MP3575	$54.90	$49.40	$43.90
12.5A	MP3573	$149.00	$133.90	$118.90

Brass Monkey Accessories

85W MAINS POWER SUPPLY FOR FRIDGE / FREEZERS

Power supply for running Brass Monkey portable fridges from mains power socket.

- Suites fridges with rectangular power connection.
- Suits Brass Monkey/Waeco®

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH1628	$56.90	$50.90	$44.90

POWER LEAD FOR BRASS MONKEY FRIDGES

Spare or replacement 12V power lead for Brass Monkey fridges. Combination input plug to suit cigarette lighter or merit power outlets.

- Suites fridges with rectangular power connection.
- Suits Brass Monkey/Waeco®

	Cat.	Qty 1+
	GH1629	$28.90

INSULATED COVERS FOR BRASS MONKEY PORTABLE FRIDGE / FREEZERS

NEW

Helps increase thermal efficiency, as well as keep your fridge protected. Perfectly matched to the Brass Monkey fridges on the previous page.

Suits	Colour	Cat.	Qty 1+
36L	Grey	GH1650	$119.00
36L	Green	GH1651	$119.00

Fans

12VDC OSCILLATING FANS

Keep cool in the stifling heat. If you need some extra air circulation in your car or truck grab one of these fans, mount it, and away you go. The models just connect to your cigarette lighter socket for power. The on/off switchbox includes screw mounting holes to give your installation a more permanent look. Clamp & suction mount bracket versions available.

GH1400 GH1399

1 YEAR WARRANTY

SPECIFICATIONS	ALL MODELS
Power	12VDC
Dimensions	180(Dia.) x 145(D)mm; 200(Dia.) x 150(D)mm (GH1402)
Switch	On/off oscillating switch
Cable Length	2m

	Cat.	Qty 1+	Qty 3+	Qty 6+
6" with Clamp	GH1400	$33.90	$29.90	$26.90
6" with Suction Mount	GH1399	$33.90	$29.90	$26.90
8" with Clamp	GH1402	$45.90	$40.90	$35.90

DUAL 4" FANS WITH CLAMP - 12VDC

No more hogging the cool breeze! Dual fans means you can both keep cool. Individual adjustment so you can point them precisely where you want to. Multi-speed control, 12VDC powered, with a 2m cigarette lighter cable provided.

- Dimensions: 268(W) x 235(H) x 145(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH1403	$45.90	$40.90	$35.90

4" SUPER-COMPACT MINI FAN "KATABAT"

The 4" fan produces a surprising amount of cooling air but only has a table footprint of only 110 x 35mm. It is self-sustained using a rechargeable Li-ion 18650 3.7V battery. No cords needed, a USB recharger is included with the product. It comes with a hook to hang it up and even has an LED which can be used as a torch. More useful is the fact that small as it is, it has a 3-speed fan button! Unbelievable!

- Dimensions: 140(H) x 105(W) x 40(D)mm

GH1286

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	GH1286	$20.90	$18.80	$16.70
White	GH1289	$20.90	$18.80	$16.70

click & collect

Click and Collect is now available at all Jaycar stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 1 hour!

MINI RECHARGEABLE FAN WITH CLAMP MOUNT

This fan is very similar to our GH1286 4" clamp fan, but it is completely portable. It has no cords as it runs on a Li-ion 18650 battery, like the 'Katabat' super compact fan. That's right, you charge it via USB with the lead supplied, (but no actual charger.) This model features a wonderful gymbal mount so that you can point the fan in any direction.

- Available in blue/white only
- Clamp will open to 30mm
- Fan housing 130mm, overall 220mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rechargeable	GH1291	$29.90	$26.90	$23.90

DELUXE WATER MISTING FAN

Be cool and comfortable while outdoors with this personal water mister and fan in one. It is handy and portable with a moulded hand grip and trigger pump for ease of use. Powerful enough to provide a significant amount of breeze but safe enough for the kids to use with soft blades. Great for use while camping, at the beach, or at sporting events etc.

- Use as a water misting fan, stand alone fan or stand alone mister
- Requires 2 x AA batteries
- Dimensions: 270(H) x 70(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Misting Fan	GH1071	$15.90	$14.30	$12.70

14" AC/DC RECHARGEABLE OSCILLATING FAN

Keeping cool has never been easier, and this fan will work even when the power's out! It recharges from mains power, but the rechargeable battery means it will work when the power's out, or you can take it somewhere with no mains power too. The large blades push plenty of air, and you can select from low/high power settings. There's also a 10 LED white light built-in, and it even includes a moulded handle for easy carrying. Mains and car chargers included.

Features:

- AC/DC Rechargeable
- LED Light
- Includes 12VDC Adaptor

	Cat.	Qty 1+	Qty 3+	Qty 6+
14" Rechargeable Fan	GH1294	$119.00	$106.90	
Spare Battery	GH1281	$18.90	$16.90	$14.90

Alan Liang likes to

think. possible.

"We'll have augmented reality glasses, potentially contact lenses that look and feel normal. We could want to watch TV, and put a digital TV on a wall and instead of being a piece of hardware, it's a $1 app. Augmented Reality will become a part of our everyday lives."

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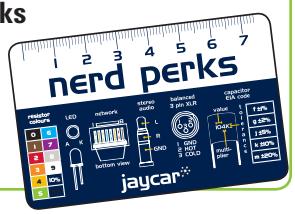


For next day delivery, or Click and Collect, see page 5

Food & Beverage Accessories

12V 1L CAR KETTLE

This attractive kettle features a water level window, an auto-shut off and a boil dry protector. The kettle has a power rating of 150W, which is about the maximum you can pull from a cigarette lighter or 12V power socket. Make sure your cig lighter circuit has a 15A fuse fitted.

- Dimensions: 185(H) x 165(L) x 150(D)mm

	CAT.	Qty 1+	Qty 3+	Qty 6+
12VDC	GH1386	$33.90	$29.90	$26.90

tech talk — 12V Kettles, How Long Is Too Long?

A lot of people bring these back as they are dismayed at the amount of time it takes to boil water. They often take over 20 minutes to boil 1/2 a litre of water. You need to look at the physics of this. A 12V Kettle will often draw 20 amps at 12V. This equates to 240 watts of power. Whilst this may seem a lot, it is generally only a fraction of a domestic 240V Kettle. They routinely draw between 1800-2200 watts of power. No wonder they are quick! 12V Kettles work, but the laws of physics are against them. You may be able to live with them once you are aware of the above.

12V HEATED TRAVEL MUG - 450ML

1 YEAR WARRANTY

Plugs into the cigarette lighter socket in the vehicle to keep your coffee, tea or soup hot as you travel. The double wall design is stainless steel so it won't rust, and the spill proof lid will help avoid any spills if you're travelling on a rough road.

- Supplied with a detachable 12V power lead to cigarette lighter plug
- 450ml

	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	GH1303	$16.90	$14.90	$13.90

12V LARGE PORTABLE STOVE

Perfect for cooking and/or storing food hot on those long trips. It gets up to 149°C and its insulated design keeps food hot, while the outside stays cool. It plugs into a 12V cigarette lighter socket in the car.

- Heats food in just 3 minutes
- Holds up to 3 litres
- Internal temperature up to 300°F/149°C
- Easy to setup and use
- Cable length: 1.9m

Dimensions:

- External: 270(L) x 200(H) x 170(W)mm
- Internal: 230(L) x 130(W) x 80(H)mm

		Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	3.0L	YS2811	$69.90	$62.90	$55.90

Steve Browne likes to

think. possible.

"My lifelong hobby is Astronomy. I recently made a portable, lightweight tracking mount for astrophotography using two old scooters for parts, a stepper motor and an Arduino and mini TFT display. I taught myself to program the Arduino and have successfully taken night sky photos with it. Thanks to Jaycar!"

Portable Shower

12V CAMPING SHOWER

1 YEAR WARRANTY

All you need is a bucket of warm water and your vehicle's 12V battery and you can wash away the cares of the day. The 4.8 metre power cable plugs into your vehicle's cigarette lighter socket and a waterproof switch controls power to the pump. The shower comes with 2.1 metres of plastic tubing, pump, showerhead, hanging hook and a nifty carry bag to store it in. This self contained little beauty even has a water flow control valve built into the showerhead and will become an indispensable part of your travelling kit.

	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	YS2800	$44.90	$40.40	$35.90

Fire Prevention / Management

ELECTRONIC LPG GAS LEVEL MONITOR

The clever unit attaches to your steel LPG gas bottle. It detects the gas in your bottle, (typically 9kg) and gives a musical alarm when the gas in your bottle is low. Don't run out of gas halfway thru a barbie ever again! Works on any steel LPG cylinder, virtually no installation.

- Uses 2 x AA batteries (supplied)
- Magnetically attaches to cylinder

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM1662	$17.90	$16.10	$14.30

1KG FIRE EXTINGUISHER 1A:20B:E

An essential product to have in any vehicle or vessel. 1kg dry powder extinguisher suitable for grease, oil, petrol and electrical fires. Supplied with pressure gauge and mounting bracket.

- Fire rated 1A:10B:E
- AS1841.5 compliant
- Non toxic

Not available in New Zealand

Not available in New Zealand

FIRE BLANKET

GG2342 GG2340

Designed for extinguishing small fires. The fire retardant fibreglass fabric will suffocate the flame quickly allowing you to restore safety. Keep one in your kitchen, workshop, boat, caravan, 4WD or at the campsite.

- Supplied in soft pouch

	Cat.	Qty 1+	Qty 3+	Qty 6+
1m x 1m	GG2340	$18.90	$16.90	$14.90
1.2m x 1.8m	GG2342	$31.90	$28.70	$25.50

Pest Control

THE AMAZING FLYGUN

The Amazing Flygun is a spring powered gun that kills flies, mosquitos and cockroaches! It is fun, safe and easy to use. The swatter is simply pushed onto the gun and it is ready to use. A long string is also attached so the swatter won't get lost. It is then ready to be reloaded and fired again. It is fun, effective and really does work! It has proven extremely popular, with thousands being sold every month!

TRUST US! THIS THING REALLY WORKS!

SAFE FOR KIDS 8 YEARS +

	Cat.	Qty 1+	Qty 3+	Qty 6+
Flygun	YS5545	$9.90	$8.50	$7.50

PERSONAL SONIC INSECT REPELLER

Keep the mozzies away! With a range of 6 metres, it's perfect for camping, picnics fishing etc. It also has a pocket or belt clip to keep it handy.

- Requires AA battery: SB2424
- Dimensions: 95(L) x 20(dia)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Insect Repeller	YS5534	$11.90	$10.70	$9.50

HIGH POWER 'FREQUENCY SHIFTING' ULTRASONIC PEST REPELLER

This pest repeller uses frequency shifting techniques which may prevent pests from developing an immunity. The device has an output of 140dB that can protect up to 280 square metres. The repeller may be effective against mice, rats, roaches, fleas, flies, crickets, silverfish, waterbugs, moths, ants, spiders & most other common pests. The ultrasonic frequencies used are out of the hearing range of humans & most household pets such as cats, dogs, fish & birds etc. We make no guarantees that this will solve your particular problem, but there are thousands of people who swear by them.

- Supplied with mains plugpack and installation guide
- Dimensions: 120(Dia.) x 75(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
140dB	YS5520	$45.90	$40.90	$35.90

DUAL SPEAKER PEST REPELLER

Emits ultrasonic sound waves which are extremely unpleasant for cock-roaches, flies, crickets, silverfish, mice & other nasty critters. Laboratory research has shown ultrasonic sound waves attack the auditory and nervous systems of most common pests causing them pain and discomfort. The high intensity sound waves will end up driving away these pests. The frequency can be adjusted from 22kHz up to 49kHz, for driving away certain pests. A clean alternative to poison or dangerous traps. Includes mains power supply.

SPECIFICATIONS	YS5528
Frequency Range	22kHz-49kHz (manual control)
Power Consumption	2W
Output Sound Pressure	115dB x 2
Dimensions	155(L) x 90(W) x 85(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
2 x 115dB	YS5528	$69.90	$62.90	$55.90

ELECTRIC FENCE ENERGISER - 10KM

Capable of electrifying up to 10km of fencing for enclosing livestock such as horses, chickens, cattle, sheep, etc. Installation is simple, connect up to a 12VDC lead acid battery via the alligator clips, and then using the binding posts, wire up to a suitably fitted electric fence wire and ground stake. You will need to ensure that you have the correct electric fence isolators, joiners wire and tape fitted to your fence to ensure it works properly - full instructions are included with the unit and available on our website. The required fencing components are available from most agricultural supply stores.

- 10km range
- 0.6 Joules
- Average power consumption: 10mA
- Max power: 12VDC 85mA
- 12VDC battery operated (recommended 4Ah or larger SLA)
- Minimum 3W solar panel recommended
- Dimensions: 171(H) x 95(W) x 45(D)mm

DO NOT CONNECT TO MAINS ELECTRICITY.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fence Energiser	ME6800	$99.90	$89.90	$79.90

MOSQUITO ZAPPER WITH 180 LUMEN LED LANTERN

This rechargeable electronic zapper measures 90mm in diameter and 130mm high. It weighs only 200 grams and features a nifty double hook to mount anywhere. The unit also features a soft white light (3 light levels) which can be operated independently of the zapper. The zapper can work with or without the light. When on, the zapper has an unobtrusive UV style light, which attracts the bugs. The bugs fly through the finger guard only to be confronted with a high voltage grid which either kills them instantly or stuns them. Result? No more bugs around your ears at 2am! It gets better. The unit is charged by USB! It works for about 8 hours on a charge, depending on insect kill rate and lighting level. Great for camping or at home.

SPECIFICATIONS	YS5544
Lumens	Low: 30 Medium: 90 High: 180
Battery Life	Low Light: Up to 4 hours Medium Light: Up to 8 hours High Light: Up to 20 hours
UV	Up to 30 hours
UV LED	5W
Battery	3.7V, 2000mAh Li-Po
Input Power	5V @ 1A
Charge Time	3-4 hours
Dimensions	130(H) x 90(Dia.)mm
Weight	204g

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	YS5544	$33.90	$29.90	$26.90

Emergency

SURVIVAL KNIFE WITH LED TORCH/FIRE STARTER/BELT CUTTER/WINDOW BREAKER

Built for extreme adventures, the knife is crafted using Grade 420 stainless steel for maximum durability. Use the serrated edge to cut with speed or the straight edge to cut with precision. The built-in LED light lets you see in the dark while the magnesium alloy fire starter lets you start your own campfire. If you find yourself trapped inside your own vehicle, use the belt cutter & window breaker for an escape.

- Grade 420 stainless steel construction with anodised aluminium handles
- Liner lock system
- Blade features straight and serrated edges
- Built-in LED light
- Magnesium alloy fire starter
- Belt cutter
- Window breaker
- Dimensions: Open: 208(L)mm Closed: 126(L)mm

Some age restictions apply in some states for knife sales.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Survival Knife	TH1925	$23.90	$21.50	$19.10

not sure what to buy?
Give a Jaycar Gift Card and let them choose!

For next day delivery, or Click and Collect, see page 5

Air Compressors

12VDC AIR COMPRESSORS

1 YEAR WARRANTY

Powerful air compressors great for a variety of outdoor activities and emergency situations such as pumping flat car/4x4/truck tyres, inflatable boats, air beds, etc. Both models incorporate automatic thermal cut-out for added protection as well as cleanable air filters to keep the units free from dirt and other contaminants. Includes heavy duty battery clamps for secure connection to your 12V power source and extendable coil hoses for reaching those tricky spots. Each unit has anti-vibration mounting feet to ensure they stay planted to the ground and a foam grip handle. Accessory nozzles for pumping bike tyres, balls, and other inflatables included as well as a black carry bag.

MC7200

SPECIFICATIONS	MC7202	MC7200
Power	12VDC	
Gauge	150PSI	
Current	35A	45A
Max Pressure	150PSI	
Power	420W	540W
Max Air Flow	72L per minute	180L per minute
Hose	10m PA Hose	5m PA Hose
Dimensions	289(L) x 185(H) x 139(W)mm	345(L) x 215(H) x 150(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
72L/min	MC7202	$159.00	$142.90	$126.90
180L/min	MC7200	$249.00	$225.00	$198.90

tech talk Air Compressors

How do you know you are getting a good compressor? The real way is to pull the compressor apart and check the piston. A good compressor will have a steel piston in an alloy cylinder, or an alloy piston in a steel lined cylinder. An easier way is to look at the construction of the tyre inflator. Cheap compressors supply a poorly built & flimsy unit. Check ours out.

Oil Pump

OIL PUMP 0.3-1.2LPM 12VDC

Perfect for siphoning oil to a holding tank, or refilling oil on your inboard while reducing the potential of a bilge full of oil from a spill. Suitable for motor oil and diesel, but not petrol or other highly flammable liquids. Includes hoses and hose clamps.

Note: Motor oil should be warm where possible (40-60°C) for maximum transfer speed. Not suitable for pumping of water or high viscosity oils (such as gearbox oil).

Features:

- Fast transfer
- Quick battery connection
- Up to 1.2 litres per minute

SPECIFICATIONS	MC7250
Power	12VDC @ 5A, 60W
Maximum Duty Cycle	30 minutes
Maximum Flow Rate	Diesel or Heated-Oil: Approx. 250 l/h Motor-Oil (40°- 60°C): Approx. 3 l/min
Weight	785g
Dimensions	140(W) x 128(D) x 85(H)mm
Cable Length	1m coiled cable

	Cat.	Qty 1+	Qty 3+	Qty 6+
	MC7250	$56.90	$50.90	$44.90

Metal Detectors

4 IN 1 METAL DETECTOR EXPLORER'S KIT

A metal detector only does half the job, once the needle starts to flick and the alarm starts to beep, you know you are in for some serious digging. This handy digging set is very light to be carried around and also very tough and durable.

- Includes headphones to connect to your metal detector, a 2-in-1 handheld shovel/rake, a sieve and a carry bag

Note: Metal detector not included.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Explorer's Kit	QP2304	$59.90	$54.00	$47.90

WATERPROOF METAL DETECTION PIN-POINTER WITH VIBRATING ALERT

Don't waste time ploughing around a large area to find the target object, pin-point exactly where your desired metal is before digging. Highly accurate and capable of detecting a coin at up to 30mm depth, it will alert you when you've found your treasure with LED indication and vibration. Easy to carry and waterproof, it is ideal for use in many environments.

- Completely waterproof
- LED indicator and vibrating alert
- Low battery indication
- Power: Requires 1 x 9V alkaline battery

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Pin-Pointer	QP2305	$74.90	$67.40	$59.90

BEGINNER METAL DETECTOR WITH AUTO TUNE

A great beginner's metal detector! It is very simple and easy to use - it has an auto tune feature with a meter indication to show metal types detected. It is very reliable with its microprocessor control and digital signal processing. The detector has an adjustable length boom and a waterproof search coil making it suitable for use in a variety of landscapes. It is capable of detecting a coin at 100mm deep and responding to all types of metals. It features volume and sensitivity adjustment knobs, audible alert speaker and headphone socket.

- Volume and sensitivity adjustment knobs
- Audible alert speaker
- Headphone socket
- Overall length: 780mm
- Search Coil Dimensions: 165(Dia) x 17 (H)mm
- Requires 6 x AA Batteries

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP2302	$99.90	$89.90	$79.90

WATERPROOF METAL DETECTOR WITH LARGE LCD

Ideal for beachcombing and prospecting as well as finding objects in obscured locations such as long grass, this high grade portable metal detector is suitable for many applications. Capable of detecting a coin at up to 180mm depth it will detect a variety of metals, with three different tones to distinguish dissimilar metals. Operating at a low frequency of 6.6kHz, the detector will only respond to metal objects and ignores the effects of iron ground mineralization, making it more accurate for locating at large depths. Alternatively, the all-metal mode can be switched on to enable any underground metal traces detected and is signalled both optically and acoustically. An extra large waterproof pick-up coil with its intricate two-dimensional helical winding technology enables very fine and precise measurements to be carried out while carrying it comfortably with the arm support.

- Adjustable sensitivity
- Deep target searching
- 3 Operation modes: All metal, Disc, Notch
- Ferrous/Non-ferrous indicators
- Waterproof search coil
- 3 Tones for different metal indication
- One touch auto ground balance
- Headphone jack & 2" speaker
- DSC and GND adjustment
- Requires 2 x 9V batteries
- Overall length: 1250mm
- Search coil dimensions: 205(Dia.)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP2307	$209.00	$187.90	$166.90

Action Cameras

1080P WI-FI ACTION CAMERA WITH LCD

This is a go-anywhere camera with enough capacity to film in slow-motion if you want it to (60fps). Ideal for capturing fine detail in sports or even adding a new dimension to backflips by the pool. When you download the Movii app, you can control and stream from the camera to your smartphone, so you see precisely what's happening wherever it's mounted. Its 30m rated waterproof enclosure means it's suitable for diving and watersports. The huge range of mounts and accessories mean you can use it however you like, and be confident you'll get the shot. Full HD video at up to 60fps (high speed), with full smartphone control - what a great idea.

- Full features and specifications: movii.com.au/neostream
- Search the App Store or Google Play for the Movii app to control this device!

2 YEAR WARRANTY

movii play record repeat

SPECIFICATIONS	QC8077
Video Resolution	3840 x 2160 @ 30fps (interpolated) 1920 x 1080 @ 60fps / 30fps
Photo Resolution	8 megapixel
Battery Life	Up to 1.5hrs
Memory Card	microSD up to 64GB (Class 10 - not supplied)
Dimensions (With Case)	77(W) x 43(D) x 65(H)mm
Dimensions (Without Case)	59(W) x 31(D) x 41(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
Action Camera	QC8077	$209.00	$187.95	$166.95
Spare Battery 3.7V 900mAh	QC8081	$14.90	$13.40	$11.90

ACCESSORIES FOR ACTION CAMERAS

QC8054

QC8050

QC8090

QC8078

QC8086

	Cat.	Qty 1+	Qty 4+	Qty 10+
Anti Fog Sachets	QC8076	$4.50	$4.00	$3.60
Bike Mount 17-32mm	QC8054	$22.90	$20.30	$17.90
Surfboard Mount	QC8050	$14.90		

	Cat.	Qty 1+	Qty 4+	Qty 10+
Head Strap	QC8062	$20.90	$18.80	$16.70
Dog Mount Harness	QC8090	$19.90	$17.90	
Floating Extendable Monopod	QC8096	$56.90	$50.90	$44.90
Zip-Type Wrist Gymbal Adaptor	QC8082	$28.90	$25.90	$22.90
Flexible Clamp Mount	QC8078	$33.90	$29.90	$26.90
Universal Mini Tripod Kit	QC8099	$16.90	$14.90	$13.40
360˚ Rotation Clip Mount	QC8086	$5.90	$5.30	$4.70
3 Way Tripod Stand	QC8098	$14.90		

product data:
We have so much data and fact sheets, we cannot fit it all in our catalogue. Check out our website for over 4,000 pages of data!

MINIATURE 1080P DV CAMERA

NEW

This HD digital video camera measures a tiny 23 x 23 x 23mm and weighs only 15g, so it can be mounted just about anywhere to capture the action. Insert your favourite microSD card up to 64GB and record 1080p HD video or easily switch to 720p to extend the storage capacity. The 140° lens provides a wide field of view, and at the press of a button, you can capture images up to 4032 x 3024. A built-in motion sensor can trigger recordings when movement is detected within 5m, and six infrared LEDs enable you to record in low light. The internal rechargeable battery will run for an impressive 100 minutes of continuous recording or up to 5 hours in the motion sensing mode. To operate for longer or to charge, simply find an available USB charging port. Other features include loop recording, time/date stamp option, and a lanyard hole to help carry it with you at all times. Supplied with a mounting bracket and a cable for charging or to connect to a monitor for video playback.

- Rechargeable
- Up to 1080p Resolution
- Infrared LEDs for Low Light Conditions
- 5m Motion Sensor

SPECIFICATIONS	QC8100
Video Resolution	1920x1080, 1280x720
Frame Rate	15, 30fps
Video File Type	AVI
Photo Resolution	4032x3024
Photo File Type	JPEG
Viewing angle	140°
Night illumination	6 x IR LEDs (5m Range)
Motion sensor	5m Range
Operation Time:	100 minutes (1 hour 40 minutes) in constant recording mode About 5 hours in motion sensor mode
Storage	Supports microSD cards up to 64GB
Battery	Li-ion
Dimensions	23 x 23 x 23mm
Weight	15 grams

	Cat.	Qty 1+	Qty 4+	Qty 10+
1080p	QC8100	$45.90	$40.90	$35.90

MINIATURE 1080P DV CAMERA WITH WI-FI

NEW

Wi-Fi

This tiny rechargeable camera measures under 30mm cubed, and weighs in at just 24 grams so it can be placed just about anywhere to capture the action. Attach the weatherproof case so you can place it out in the rain or where water may be splashed on it. Insert a microSD card to record video up to 1080p or connect directly to your Smartphone or computer over Wi-Fi to watch live. The 155° lens provides a very wide field of view, and at the press of a button, you can capture images up to 4032 x 3024. Eight infrared LEDs enable you to record in low light, and the internal rechargeable Li-Po battery will run for an impressive 90 minutes of continuous recording. To operate for longer or to charge, simply find an available USB charging port. Other features include loop recording, time/date stamp option, and a lanyard hole to help carry it with you at all times. Google, Android and iOS compatible. Supplied with weatherproof case, mounting bracket and a cable for charging or to connect to a monitor for video playback.

- Wi-Fi with App
- Rechargeable
- Waterproof case
- Up to 1080p Resolution
- Infrared LEDs for Low Light Conditions

SPECIFICATIONS	QC8102
Wi-Fi Range	10m
Video Resolution	1920x1080
Frame Rate	30fps
Video File Type	AVI
Photo Resolution	4032 x 3024
Photo File Type	JPEG
Viewing Angle	155°
Night Illumination	8 x IR LEDs (5m Range)
Operation Time	90 minutes (1 hour 30 minutes) of continuous recording
Storage	Supports microSD cards up to 64GB
Battery	300mAh Li-Po
Dimensions	30(H) x 28(W) x 25(D)mm
Weight	24 grams

	Cat.	Qty 1+	Qty 4+	Qty 10+
1080p with Wi-Fi	QC8102	$94.90	$84.90	$75.90

For next day delivery, or Click and Collect, see page 5

pick me

Quick Reference Model Selection Guide

	XC0366	XC0400	XC0416	XC0412	XC0434	XC0432
Touch Screen					•	
Indoor Thermometer	•	•	•	•	•	•
Outdoor Thermometer	•	•	•	•	•	•
Min/Max Records	•	•	•	•	•	•
Hygrometer	•	•	•	•	•	•
Wind Speed		•			•	•
Wind Direction		•			•	•
Wind Chill		•				•
Dew Point		•			•	•
Rain Guage		•			•	•
Rain Rate		•			•	•
Barometric Pressure	•	•	•	•	•	•
Moon Phase	•		•	•	•	•
Time/Date Display	•	•	•	•	•	•
High/Low Alarms	•	•	•	•	•	•
Transmitter Power	2 x AAA	2 x AA	2 x AA	2 x AA	3 x AA	3 x AA
Colour Screen			•		•	
Transmission Range	30m	100m	30m	30m	150m	150m
Page	512	512	513	513	513	513

Wireless Weather Stations

COMPACT WIRELESS WEATHER STATION/CLOCK CALENDAR

This stylish unit features moon phases for the Australian/NZ region. It does not have wind speed/direction but has everything else. It has an external temperature/humidity, barometric sensor, (which really should be on an outside window sill so that you can easily access it for battery change). It has fantastic time logging.

- Clock, clock alarm/snooze
- Calendar, including Day announcement
- Barometer trend log
- Weather forecast icons: Sunny, Partly Cloudy, Cloudy, Rainy, etc.
- Moon phase display (with tide indication)
- Sunrise/sunset time display
- Temperature/humidity display
- Temperature alert alarm

All-in-all excellent value for money.

1 YEAR WARRANTY

SPECIFICATIONS	XC0366
Transmitter Frequency	433MHz
Power	2 x AA & 2 x AAA (not included)
Dimensions	Console: 220(W) x 141(H) x 36(D)mm
	Transmitter: 100(W) x 55(H) x 22(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Compact Wireless Weather Station	XC0366	$79.90	$71.90	$63.90

can you trust the BOM (bureau of meteorology)?

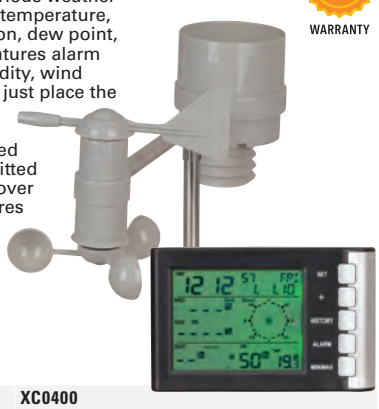
They're not bad, but their weather forecast can end at the adjoining suburb! Find out what's happening in your backyard in real time with your own weather station!

WIRELESS WEATHER STATION WITH 5.5" MINI LCD

1 YEAR WARRANTY

Keep a weather station in the house to get a quick and accurate view of various weather parameters. This unit records temperature, wind chill, wind speed/direction, dew point, humidity and more. It also features alarm modes for temperature, humidity, wind chill and more. Easy to setup, just place the weather sensors outside and keep the LCD inside as a free standing unit or mounted on a wall. Data will be transmitted wirelessly to the display unit over distances up to 100m. It features an LED backlight for greater reading clarity in poor light.

- Records mix/max temperature
- Wind direction
- 12 or 24 hour time display
- Time alarm



SPECIFICATIONS	XC0400
Temperature Range (Outdoor)	-40°C to 65°C (-40°F to 149°F)
Temperature Range (Indoor)	-9.9°C to 60°C (-14°F to 140°F)
Windchill	-40°C to 65°C (-40°F to 149°F)
Weather Alarm Mode	Temp, humidity, wind chill, dew point, rainfall, wind speed
Wind Speed	km/h, mph, m/s, knots, Beaufort
Power	Outdoor Sensor: Requires 2 x AA 1.5V LR6 Alkaline batteries. Base Station: 3 x AA 1.5V LR6 Alkaline batteries Power supply included for base station.
Dimensions (Base Station)	172(H) x 119(L) x 31(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Wireless with 5.5" Display	XC0400	$119.00	$106.90	$94.90

Wireless Weather Stations CONTINUED

INDOOR/OUTDOOR WEATHER STATION WITH MODERN UPRIGHT DISPLAY

NEW

This is a stylish unit ideal for a desk top. It features an outdoor remote transmitter that displays temperature and humidity itself, which is handy when you are outdoors and need to know these things. The transmitter requires 2 x AA batteries (which last for ages - use good ones though!). It has a hook hanger but will sit up on a flat surface. Range 30-50m. The console unit has a high contrast 125(diagonal) x 70(W)mm monochromatic display with a pleasant amber backlight. It also has an alarm with snooze function.

- Large time display
- Date/Day alarm time
- Moon phase
- Indoor/Outdoor Temperature/Humidity
- Limited weather forecast
- Requires 2 x AA batteries

PRICE BREAKTHROUGH

ADDITIONAL TEMP / HUMIDITY SENSOR XC0413

Supports up to 3 sensors allowing you to monitor 3 different environments such as kids room, kitchen or living room at once.

Note: Unit Requires 2 x AA batteries to operate

SPECIFICATIONS	XC0412
Frequency	433MHz
Wireless Transmission Range	30m
Power - Main unit	2 x AA
Power - Remote sensor	2 x AA
LCD Display Dimensions	70 x 105mm
Dimensions - Remote sensor	-
Dimensions - Main unit	85(W) X 142(H) X 55(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor/Outdoor Weather Station	XC0412	$119.00	$106.90	$94.90
Additional Temp / Humidity Sensor	XC0413	$45.90	$40.90	$35.90

MODERN, UPRIGHT STYLE WITH CLEAR LCD SCREEN AND LONGRANGE DATA SENDER

NEW

Apart from the very clear (monochrome) upright LCD screen, this unit includes the and 5-in-1 weather sensor/ transmitter as the XC0434 unit shown elsewhere. Older transmitters operate on the 433MHz ISM band, which is plagued by garage door opener transmitters. This unit works on the 868/915/917MHz band with a range of up to 150m and is not allocated to a lot of consumer-type equipment.

This unit has basically the same features of the XC0434 (See that unit for details) but with a compact display and offers a saving over the colour console unit.

- Total display size of 120(W) x 190(H) x 22(D)mm
- Batteries required: Main unit 3 x AA (optional) Sensor 2 X AA

SPECIFICATIONS	XC0432
Frequency	868/915/917MHz
Wireless Transmission Range	150m
Power - Main unit	3 x AA
Power - Remote sensor	3 x AA
LCD Display Dimensions	90 x 120mm
Dimensions - Remote sensor	343(W) x 393(H) x 136(D)mm
Dimensions - Main unit	120(W) x 190(H) x 22(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC0432	$229.00	$199.00	$179.00

ECONOMY COLOUR CONSOLE WEATHER STATION WITH OUTDOOR SENSOR & IN/OUT TEMP/HUMIDITY

NEW

This unit features a 5" diagonal (125 x 63mm) colour display with a big digit (which can be easily seen from across a large room) and super bright backlight.

A compact remote humidity/temperature sensor is provided which provides reliable info to the console up to 30m away.

- Time/Date display with alarm/snooze
- Moon phase
- Limited weather forecasting capability
- Indoor/Outdoor temperature in either °C or °F
- Indoor/Outdoor humidity
- Snow/frost indication <3°C (Also dewpoint)
- High/Low temperature/humidity alert

1 YEAR WARRANTY

SPECIFICATIONS	XC0416
Frequency	433MHz
Wireless Transmission Range	30m
Power - Main unit	5V Mains adaptor included
Power - Remote sensor	2 x AA
LCD Display Dimensions	165 x 90mm
Dimensions - Remote sensor	-
Dimensions - Main unit	202(W) x 138(H) x 38(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Economy Colour Console	XC0416	$169.00	$151.90	
Replacement Temp / Humidity Sensor	XC0417	$33.90	$29.90	$26.90

7" COLOUR TOUCHSCREEN WITH 5-WAY LONGRANGE (NEW FREQUENCY) TRANSMITTER

NEW

The main improvement to this model over the previous unit is the outdoor weather sensor. This sensor does not use the 433MHz band, which is sometimes plagued by interference from garage door openers especially. This model will send weather data to the indoor console unit up to 150m away! It has an improved rain gauge as well.

1 YEAR WARRANTY

THE SENSOR

The sensor will transmit reliable data on:

- Temperature / humidity
- Wind speed
- Wind direction (16 point)
- Rain gauge
- Requires 3 x AA batteries

THE CONSOLE DISPLAY

- Active display area measures 165 x 90mm
- Time, calendar, weekday and alarm
- Moon phase
- Indoor temperature and humidity
- Gust, or average wind speed (mph, /s, kmh, knots)
- Real time and dominant wind direction
- Rain rate, daily/weekly/ monthly (inches or mm)
- Weather forecast (Summary, slightly cloudy, cloudy, raining, stormy or snowy)
- Barometric pressure (relative or absolute)
- Histogram of rainfall or barometric data
- Much, much more
- Mains power adaptor included

SPECIFICATIONS	XC0434
Frequency	868/915/917MHz
Wireless Transmission Range	150m
Power - Main unit	5V Mains adaptor included
Power - Remote sensor	3 x AA
LCD Display Dimensions	165 x 90mm
Dimensions - Remote sensor	343(W) x 393(H) x 136(D)mm
Dimensions - Main unit	202(W) x 138(H) x 38(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC0434	$339.00	$299.00	$269.00

For next day delivery, or Click and Collect, see page 5

Environment Monitors

WIND SPEED ANEMOMETER/THERMOMETER

This unit is a more sophisticated version of our QM1644 Anemometer. Firstly, it is capable of measuring wind/ airflow parameters at the same time as monitoring temperature.

- Metres/sec; km/hr; feet/min; miles-per-hour; knots
- Cubic metres/minute; cubic feet/minute
- Air temp, 0°C-50°C (0.1˚C resolution)
- Auto power off
- Vane impeller ball bearing mounted
- 1m vane probe lead

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer	QM1646	$159.00	$142.90	$126.90

HAND-HELD ANEMOMETER AND ALTIMETER

NEW

Provides wind speed, wind chill, temperature, barometric, and altitude information for any outdoor activity. The main display can be toggled between wind speed or altitude, with the sub-display showing either temperature/wind chill, or barometric pressure and temperature. The feature-packed device is small enough to fit in your pocket and can be used be used hands-free with the included mini tripod.

- Current, max or average wind speed
- Temperature and wind chill
- Relative, max or absolute altitude up to 3000m
- Barometric display- Beaufort wind scale
- LED backlight

	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer with Altimeter	QM1645	$94.90	$84.90	$75.90

DIGITAL RAIN GAUGE WITH TEMPERATURE

This Digital Rain Gauge with Temperature has a wireless self-emptying rain collector for measuring rain fall and temperature. The wireless rain collector sensor transmits data by using a low power radio frequency to the display main unit that can be located up to 150m away (line of sight). The display unit stores the data over a time range to allow you to monitor and analyse the weather status for past 24 hours. It has advance features such as the HI/LO Alert alarm to alert you while the set high or low weather criteria are met. It allows you to analyse hourly, daily, weekly, monthly and yearly rain fall records. With radio-controlled / atomic clock feature built-in, the system is truly a remarkable personal but professional rain gauge for your own backyard.

- Large backlit LCD display unit
- Total Hourly, Daily, Weekly, Monthly and Yearly rainfall display
- Data logger stores and gathered data to display rainfall
- Graphical histogram display shows variation of rainfall pattern
- SINCE function to display TOTAL rainfall from a date
- Measures temperature
- Real time clock display with Atomic Radio Controlled function
- 150m sensor transmission range
- High / Low Alert function
- Alarm function with ice-alert function

1 YEAR WARRANTY

SPECIFICATIONS	XC0430
Battery	2 x AA size 1.5V batteries (not included)
Support Channels	Wireless sensor (Rain gauge, thermo sensor)
Dimensions	155(H) x 95(W) x 23(D)mm
Weight	212g

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rain Gauge	XC0430	$119.00	$107.90	$95.90

USB TEMPERATURE & HUMIDITY DATA LOGGER

An easy to use temperature and humidity data logger with USB interface. The logger is water resistant so it can be used indoors or outdoors. Big buttons with LCD display to easily change your settings. Stores up to 20,736 readings, and there is capacity gauge to monitor memory usage. Once connected to a computer via USB, the supplied software can read the logged data and export in graphs or CSV files.

- 20,736 readings capacity
- Logging interval from 8 seconds to 4 hours

1 YEAR WARRANTY

SPECIFICATIONS	XC0424
Temperature Range	-40˚C to 60˚C
Humidity Range	0%RH - 99%RH
Power	1 x 3V CR2032
Battery Life	12 months
Dimensions	87(L) x 60(W) x 19(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC0424	$69.90	$62.90	$55.90

ULTRASONIC WATER TANK LEVEL METER WITH THERMO SENSOR

Keep an eye on your outdoor water tank from the comfort of your own living room, up to 100m away. Installed at the top of your water tank, the transmitter unit measures the water level and temperature using an ultrasonic sensor. You can hang the receiver unit on a wall (hooks) or pull out the stand and place it on your kitchen bench top, table or desk. View your room's temperature, tank temperature and water level (represented by a 10 element bar graph). You can store min/ max records and set alarms for specific water levels (high/low) or when empty.

- Transmission range up to 100m
- Time display (12/24hr) /Time alarm mode
- Calendar display
- Indoor temp. display /Tank temp display
- Tank level display (metre/feet)
- Water level displayed on a 10 element bar graph
- Min. & Max. records for indoor & tank temp
- Tank level alarm mode (high/low)
- Tank empty alert
- Low battery indicator
- Tank level updated every 30 seconds or 3 mins
- Wall mount, Free standing
- Battery power: receiver 2 x AA 1.5V (not included), outdoor transmitter: 6 x AAA 1.5V (not included)
- Dimensions: Receiver: 106(L) x 97(W) x 24(D)mm
  Sensor (into tank): approx 47(Dia.)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Water Tank Level Meter	XC0331	$99.90	$89.90	$79.90

Edward Skender likes to

think. possible.

"My DJI Mavic 2 Drone with 20MP camera and the Apple Watch with cellular capability. Both sport awesome technology now and very useful capability. Drones will evolve further with greater flight times made possible with evolving battery technologies driven by solar and electric vehicles."

where's my local Jaycar store?

Use our store finder on our website. With over 300 Jaycar stores and Authorised Resellers, just type in your postcode of area to find the closest one to you.

Desktop Thermometer & Clocks

INDOOR DESK THERMOMETER

Handy desk or table-top thermometer. Measures degrees Celsius with high and low memory. Tilting bail for standing on desk purposes.

- Battery included

SPECIFICATIONS	QM7316
Range	-20°C to 50°C
Dimensions	64(W) x 72(H) x 18(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor Version	QM7316	$7.90	$7.20	$6.50

WIRELESS IN/OUT LCD THERMOMETER

Keep an eye on the outdoor and indoor temperature with ease. This thermometer is comprised of two parts. An LCD display/receiver to keep inside and a wireless outdoor temperature sensor which transmits the outdoor temperature back to the display. Great for monitoring computer server rooms, wine cellars, effectiveness of housing insulation, or for simply wanting to know the differentiation in temperature.

- No need to expose the LCD to the elements

SPECIFICATIONS	XC0321
Indoor Temperature Range	0°C to 60°C
Outdoor Temperature Range	-40°C to 60°C
Display Unit Requires	2 x AAA batteries
Remote Requires	2 x AAA batteries
Transmission Frequency	433.92MHz
Receiver Dimensions	86(H) x 57(W) x 18(D)mm
Sensor Dimensions	68(H) x 50(W) x 21(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer	XC0321	$24.90	$22.30	$19.70

JUMBO DISPLAY IN/OUT THERMOMETER

One display that shows both the inside and outside temperatures simultaneously. It will also record the minimum and maximum temperatures. The outside temperature sensor is waterproof and is on a 3 metre cable. It also has a tilting bail for standing as well as a keyhole for wall mounting. Jumbo digits for the optically challenged.

1 YEAR WARRANTY

SPECIFICATIONS	QM7310
Temperature Range	-39.9°C to 49.9°C (-39.8°F to 122°F)
Battery	Requires AA
Dimensions	95(W) x 140(H) x 22(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM7310	$24.90	$22.40	$19.90

JUMBO DISPLAY THERMOMETER / HYGROMETER

Displays the temperature and humidity together on the one huge LCD display. It also has a min / max function (memory).

- Switch between C° and F°
- Requires AAA battery

1 YEAR WARRANTY

SPECIFICATIONS	QM7312
Temperature	-10°C to 60°C (14°F to 140°F)
Humidity	10 - 99% +/-5%
Accuracy	+/-1°C, +/-1.8°F
Dimensions	110(H) x 100(W) x 22(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM7312	$29.90	$27.90	$23.90

WIRELESS IN/OUT THERMOMETER/HYGROMETER

An advanced thermometer/hygrometer capable of measuring indoor and outdoor temperature, as well as relative humidity. The large easy to read LCD acts as a receiver unit for a separate outdoor sensor unit. It will record maximum and minimum temperatures for quick referral and conveniently displays the time of day. Ideal for temperature or humidity sensitive environments such as museums, greenhouses, or to check if your home and office is too dry or moisture laden. The LCD receiver unit is capable of receiving information from up to 3 sensor units, which are available separately (see Cat. XC0324).

1 YEAR WARRANTY

SPECIFICATIONS	XC0322
Indoor Temperature Range	0°C to 60°C
Remote Temperature Range	-45°C to 65°C
Humidity Range	1% to 99%
Transmission Frequency	433.92MHz
Transmission Range	Up to 100m open air
Power Requirements (Receiver)	2 x AA alkaline batteries (not included)
Power Requirement (Remote)	2 x AAA alkaline batteries (not included)
Receiver Dimensions	95(H) x 114(W) x 25(D)mm
Sensor Dimensions	51(H) x 63(W) x 25(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer/Hygrometer	XC0322	$42.90	$38.60	$34.30
Extra Sensor	XC0324	$20.90	$18.80	$16.70

Fridge Thermometers

DIGITAL FRIDGE/FREEZER LCD MINI THERMOMETER

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet.

- Stylish design with white face and silver colour surround
- Selectable ˚C / ˚F

SPECIFICATIONS	QM6323
Temperature Range	-19°C to 49˚C
Digit Height	23mm
Batteries	1 x CR2025 included
Dimensions	68(L) x 44(H) x 12(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Thermometer	QM6323	$11.90	$10.70	$9.50

DIGITAL THERMOMETER FOR FRIDGE OR FREEZER

Keep your fridge at the right temperature all year round. Simply attach the sensor to the desired position in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed hook and loop strip. Set your preferred reading of °C or °F and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem.

- No more spoiled food ever again
- Shows room temperature at the touch of a button as well

SPECIFICATIONS	QM7209
Room Temp Range	-10°C to 50°C
Fridge Temp Range	-50°C to 70°C
Display Size	26(W) x 13(H)mm
Fridge Sensor Cord	1m long
Requires	1 x AAA battery (supplied)
Dimensions	67(W) x 39(H) x 15(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer with Alarm	QM7209	$29.90	$26.90	$23.90

For next day delivery, or Click and Collect, see page 5

Clocks

LCD TOUCH SCREEN COUNTDOWN TIMER

An easy-to-use countdown timer for the kitchen, home gym, study, etc. Features a backlit touchscreen, fold-out stand for sitting on a desk or magnets for attaching to a metal surface like a fridge. It has a stylish appearance and the numbers scroll downward with every second and minute, making it mesmerising to watch. At the touch of a button it can be turned into a stopwatch count-up timer.

- Touch screen with white LED backlit display
- Countdown range: 99 minutes and 59 seconds
- 2 x AAA batteries required
- Dimensions: 80(H) x 80(W) x 25(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Countdown Timer	QM6325	$19.90	$17.90	$15.90

TRAVEL WORLD TIME ALARM CLOCK WITH LED TORCH

With the twist of a knob this clock will automatically update the time zone to one of 18 time zones. A bright screen displays current time, time zone, full date, and current temperature. It also features an alarm clock. On the other end is a 3 LED torch! Ideal for any world traveller!

1 YEAR WARRANTY

- Time Zones: Honolulu, Los Angeles, Denver, Chicago, New York, Rio De Janeiro, London, Paris, Cairo, Athens, Moscow, Dubai, India, Bangkok, Hong Kong, Tokyo, Sydney, and Wellington
- Batteries: Requires 2 x AAA batteries
  Torch: 3 x AG13 button batteries (included)
- Dimensions: 132(W) x 39(H) x 38(D)mm
- LCD Dimensions: 41(W) x 20(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Alarm Clock Torch	XC0103	$22.90	$20.90	$17.90

LCD CLOCK WITH THERMOMETER

Slimline LCD clock that displays both the time and temperature simultaneously on a large, easy to read display. Stylish design with white face & silver coloured surround.

- Desk or wall mount
- 12/24 hour selectable
- ˚C / ˚F selectable
- Digit height: 35mm
- Temperature range: 0˚C - 50˚C
- Requires 2 x AAA batteries
- Dimensions: 215(L) x 73(H) x 22(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Clock with Temp	XC0230	$29.90	$26.90	$23.90

LED CLOCK WITH AM/FM RADIO

Provides large digit display for easy reading - even with tired eyes, and dual alarm functionality with snooze. An AM/FM radio is built in, with digital tuning and an integrated antenna. Optional battery backup for clock, 2 x AA batteries required if desired.

- Battery back-up
- Snooze function
- Dual alarm
- 30mm digit height

SPECIFICATIONS	AR1930
FM	87.5 - 108MHz
AM	522 - 1620KHz
Power	240V
Batteries	2 x AAA (Not Included)
Weight	410g (Excluding Batteries)
Power Cable Length	1.25m
Dimensions	131(W) x 58(H) x 120(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR1930	$28.90	$25.90	$22.90

LARGE DISPLAY LED CLOCK WITH AM/FM RADIO

Extra large digits provide easy viewing even if you can't find your glasses. Dual alarm option, with digitally tuned AM/FM radio. Auxiliary audio input for use with an alternative music source. Battery backup functionality using 2 x AAA batteries if desired.

- Large LED display
- AUX input
- Battery back-up
- Large 48mm digit height

SPECIFICATIONS	AR1932
Power	240VAC
Batteries	2 x AAA (Not Included)
Weight	595g
Dimensions	230(W) x 110(H) x 90(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR1932	$45.90	$40.90	$35.90

LCD WALL CLOCK WITH CALENDAR AND TEMPERATURE

This sleek device features a huge 194 x 110mm LCD to provide convenient time display at a glance. In addition to the time however, it also includes an alarm clock, calendar, day of the week, as well as the current temperature and humidity (indoor). It features an integrated stand and hang-hole for desktop or wall mounting. It's a great looking unit that will suit any decor.

Features:

- Thermometer
- Hygrometer
- Alarm and snooze functions
- Time, date, and day of the week display

SPECIFICATIONS	XC0225
LCD Size	194(W) x 110(H)mm
Time Format	12 Hour/24 Hour
Languages	7
Snooze Setting	1 - 60min
Temperature Range	-9.9 to +50°C (14.1 to 122.0°F)
Humidity Range	20 - 95% relative humidity
Batteries	3 x AA (Not Included)
Weight	540g (Including Batteries)
Dimensions	306(W) x 176(H) x 36(D)mm

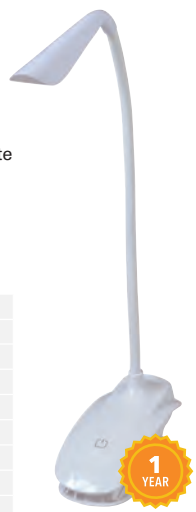
	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC0225	$69.90	$62.90	$55.90

Office Gadgets

LED DESK LAMP WITH CLAMP

Fantastically stylish with touch-sensing brightness control. It's rechargeable and will run for up to 12hrs depending on the brightness setting. The gooseneck allows you to position it just where you want, and the desk clamp keeps it firmly in place. Ultra bright, white COB LED for daylight white light. The LED head also features rubberised ABS for durability. So delightful it suits the workbench, bedside table, or study area all very well.

- 3 Level Adjustible Brightness
- Flexible Stand
- Touch Sensor Switch



1 YEAR WARRANTY

SPECIFICATIONS	SL3145
Max Brightness	120 Lumens
Battery	500mAh lithium polymer battery
Burn Time	Up to 12hrs
Recharge Time	5hrs
Weight	130g
Dimensions	115(L) x 55(W) x 380(H)mm
Material	ABS, Rubber
3 Level Brightness	100%, 70%, 30%

Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
120	SL3145	$18.90	$17.00	$15.10

Office Gadgets CONTINUED

KEYRING LASER POINTER

This laser keyring pointer is chrome plated, and has a keychain attached. Requires 3 x LR44 batteries, which are supplied.

- Very small, only 70mm long x 13mm dia
- Wavelength 670nm / Max output < 1mW
- Do not stare into beam

This laser pointer has passed Aust. Standards for laser pointers. AS/NZS 2211.1:1997.

1 YEAR WARRANTY

Not available in New Zealand

USB WIRELESS LASER PRESENTER

If you conduct presentations with PowerPoint or other suitable presentation software, this 2.4GHz wireless presenter will give you portable control of your slides, and a laser pointer too! It provides you with next / previous slide functionality, as well as screen blanking option. It includes a USB dongle for plug and play 2.4GHz functionality with any Windows computer. The USB dongle can also be stored inside the controller when not in use, so you don't lose it. It offers fantastic range with up to 10m transmission, so you don't have to be right by your computer for reliable operation.

Features:

- Laser pointer
- Powerpoint presentation controls
- 2.4GHz wireless
- USB 2.0
- Up to 10m range
- Plug & play
- Ergonomic soft-touch design
- USB receiver fits inside presenter for storage and transport

SPECIFICATIONS	XC5409
Wireless	2.4GHz
USB	2.0
Range	Up to 10m
System Requirements	Windows 2000/XP/Vista/7/8/8.1/10
Batteries	2 x AAA (Included)
Weight	20g (Excluding USB Dongle & Batteries)
Dimensions	Presenter: 116(H) x 38(W) x 28(D)mm USB Dongle: 59(D) x 18(W) x 9(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC5409	$39.90	$35.90	$31.90

5.8GHZ WIRELESS HDMI 1080P PORTABLE SENDER/RECEIVER

This portable HDMI AV sender is perfect for travelling, presentations, lecturing, or even home streaming from your laptop or PC. Unlike most units for home and office, the transmitter for this unit is barely larger than a USB flash drive. It plugs straight into the HDMI socket on your laptop or PC, using USB power. Wireless transmission is on the ultra-reliable 5.8GHz band for minimal interference and high quality transmission. The receiver is compact and can be placed up to 20m away! Infrared passback is included so you can control infrared devices at the source too. A powerful package that's fully plug and play, so there's no fuss setup every time. HDMI 1.3a and HDCP 1.4 compliant for the ultimate in HDMI compatibility. Includes infrared emitter, infrared receiver, USB transmitter power cable and mains power adaptor.

- HDMI 1.3 / HDCP1.2
- 1080p full HD
- Point to point wireless configuration
- IR passback with 20-60kHz frequency
- Plug and play
- 20m transmission distance

SPECIFICATIONS	AR1909
Maximum Transfer Rate:	10.2Gbps
IR Passback	20-60kHz
Transmission Distance	20m
Dimensions:	Transmitter: 89(W) x 15(H) x 39(D)mm Receiver: 132(W) x 20(H) x 95(D)mm

	Cat.	Qty 1+
	AR1909	$229.00

2GB DIGITAL VOICE RECORDER

A simple one key to record digital voice recorder with 2GB of inbuilt memory capable of recording up to 540 hours of audio. It features three recording modes; high quality (HQ), standard quality (SP) and long play (LP). Files can be played back or deleted on the device with ease and features voice-activated recording which is great for use in lecture theatres or presentations. Includes USB cable and earphones.

1 YEAR WARRANTY

SPECIFICATIONS	XC0387
Memory	2GB Internal
Recording Time	34hrs HQ / 134hrs SP / 540hrs LP
Battery	Requires 2 x AAA
Battery Life	Up to 27hrs HQ, 41hrs SP, 41hrs LP
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.0+
Dimensions	102(H) x 30(W) x 17(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
2GB	XC0387	$89.90	$80.90	$71.90

4GB DIGITAL VOICE RECORDER

A sleek and intuitive rechargeable voice recorder with touch button display and a generous 4GB of memory. Quick one-key recording means you won't miss an important part of a speech or radio broadcast. It features two recording modes; pulse code modulation (PCM) and high quality (HQ) for capturing up to 69 hours of high quality audio. You can also set it to VOR (voice operated recording) and let the device record whatever it hears. A solid voice recorder ideal for students, journalists, musicians, private investigators, and business people. Includes earphones, tie clasp microphone and USB cable.

1 YEAR WARRANTY

SPECIFICATIONS	XC0389
Memory	4GB Internal
Recording Format	WAV (PCM), MP3 (HQ)
Recording Time	12hrs PCM / 69hrs HQ
Battery Life	Up to 17hrs PCM, 15hrs HQ
Recharge Time	Up to 3hrs
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.0+
Dimensions	100(H) x 36(W) x 9(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
4GB	XC0389	$119.00	$107.90	$95.90

PROGRAMMABLE USB FAN

Keeps you cool and at the same time displays a pre-programmed message in thin air! Using the rotation of the blades and well timed LED controller, it will display a maximum 20 colour messages with 20 characters per message. Simply plug into the USB port on your computer and adjust the gooseneck for the optimum angle. Software supplied.

Features:

- RGB SMD LED
- 5VDC USB
- On/Off switch
- 300mm gooseneck, 88mm dia. fan

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH1031	$22.90	$20.90	$17.90

USB PLASMA BALL

Create dazzling lighting effects with this USB Powered Plasma Ball that will surely impress your colleagues! Plasma is the fourth state of matter - as the ball becomes energised, the gases inside light up and turn into plasma. By touching the outside of the ball, you provide a path for the energy to escape, so you can produce amazing effects.

- Requires 4 x AAA batteries for portable use
- Dimensions: 130(H) x 100(W)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Plasma Ball	GE4089	$24.90	$22.40	$19.90

For next day delivery, or Click and Collect, see page 5

Office Gadgets CONTINUED

LED DISPLAY USB FAN

This is fun to look at and useful too! It's USB powered, but also features a full colour integrated display! Using the free app, you can connect to the fan via Bluetooth®. From there you can configure display of time/temperature, or a configurable full colour text message! If that wasn't enough, upload up to 10 of your favourite photos - now THAT is amazing! The free app is available on Google Play or Apple iTunes®. It's definitely going to get everyone talking in summer!

Features:

- Displays images and message
- Bluetooth® connection
- USB powered

SPECIFICATIONS	GH1021
Power	5VDC @ 1A
Weight	430g
Dimensions	194(W) x 194(H) x 92(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH1021	$45.90	$40.90	$35.90

GALILEO THERMOMETER 30CM 16-28°

This Galileo thermometer makes a beautiful addition to any home. It is named after Galileo Galilei, and works off his principle that the density of a liquid changes in proportion to its temperature. It is a sealed glass cylinder that is filled with liquid, and contains 7 glass vessels of varying mass. The vessels rise or fall as the temperature changes. No power required, and makes a great conversation piece as well as being practical.

Features:

- No power required
- Demonstrates density principles
- Beautiful to look at

SPECIFICATIONS	GG2106
Temperature Indication	< 16 to > 28°C
Weight	310g
Dimensions	300(H) x 36(Dia.)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
	GG2106	$28.90	$25.90	$22.90

USB KEYSTROKE PRANKSTER

Unleash moments of confusion and panic on unsuspecting victims with what appears to be a USB drive. Simply plug it into their computer and it will either randomly type sentences, engage capslock or move the mouse on their PC. Little switches allow you to control the prank option and a dial will adjust the frequency. It's advisable to keep the frequency low to avoid suspicion. PC compatible.

- Prank capslock, keyboard, mouse or mixtures of all three
- Dial to adjust frequency from 5 seconds to 15 minutes
- Dimensions: 34(L) x 17(H) x 7(D)mm

IT'S TINY

	Cat.	Qty 1+
	GE4300	$17.90

THE USELESS BOX

One mystical black box with a single toggle switch. Every time you flip the switch, a little finger pops out from the box and turns itself off. No one on this planet has yet figured out a use for this, hence the name 'The Useless Box'. There is one thing however that we did notice, this magical box leaves anyone who comes into contact with a mesmerised smile on their face.

- Battery: Requires 2 x AA batteries
- Dimensions: 140(H) x 80(W) x 75(D)mm

You've got to watch the video!

IT'S ADDICTIVE!

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT3706	$42.90	$38.60	$34.30

Luggage Scales

COMPACT DIGITAL LUGGAGE SCALE 50KG

With airlines ever-tightening baggage restrictions on over-weight fees, this handy scale is great for any traveler. It's compact, yet measures up to 50kg! A hook and strap are included to allow weighing of just about any type of luggage. Extremely useful for balancing your shopping between luggage on the return trip, so no one-piece is over-weight! Provides measurement in grams and kilograms, as well as pounds and ounces. Bright display with clear numbers and blue-backlight. Battery included.

Features:

- Up to 50kg
- kg/g and lb/oz
- Blue backlight

SPECIFICATIONS	QM7234
Batteries	1 x CR2023 (Included)
Supported Weight	50kg
Dimensions	147(W) x 46(H) x 30(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM7234	$22.90	$20.90	$17.90

Breathalyser

FUEL CELL BREATHALYSER WITH ADVANCED FLOW DETECTION

NEW

1 YEAR WARRANTY

This personal breathalyser uses an internal fuel cell to measure alcohol in your breath, which is one of the more accurate ways to test. Testing is simple, and blood alcohol is presented as a percentage on the backlit LCD display. Of course, all measurements are an indication only and you should only use them as a guide. The safest blood alcohol to drive with is zero. Features include a breath sample flow check, memory of the last 16 results, cumulative test counter, and a sensor self-diagnostic system. Just one AA battery is required for power. An auto-off function extends battery life, and a battery low indicator reminds you when its time to change the battery. Mouthpieces are supplied, and a pack of six (QM7321) can be purchased separately.

- Fuel Cell Sensor
- Breath Sample Flow Check Technology
- Backlit LCD screen

Note: Readings taken with these devices are for reference only. In spite of their quality and accuracy, errors may occur due to operation or environmental conditions and we accept no liability or responsibility whatsoever for any consequences arising from the use of these devices.

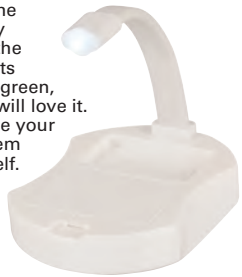
SPECIFICATIONS	QM7320
Sensor	Fuel cell
BAC Range	0.00-4.00 ‰BAC
Accuracy	+/-0.005 % at cal. point
Display	4-digit Backlit LCD (%BAC)
Warm-up time	Within 10sec
Power	1 x AA Alkaline Battery (Supplied)
Dimensions	118(L) x 50(W) x 18(D)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fuel Cell Breathalyser	QM7320	$119.00	$106.90	$94.90
Spare Mouth Pieces - 6pk	QM7321	$5.60	$5.00	$4.45

Bathroom Gadgets

TOILET NIGHT LIGHT WITH DETECTOR AND RGB LED

This device sits on the toilet bowl under the seat and comes on in the dark when you approach it. The detector switches on a soft light that discretely illuminates the bowl without needing to turn the bathroom light on and disturbing others. It gets better! It lights up in 7 different colours: blue, green, red, white, aqua, yellow and purple! The kids will love it. The product is not limited to just the toilet. Use your imagination to solve that small lighting problem you may have in the caravan, RV or house itself.



- Activated by human movement
- Water resistant
- 5 stage dimmer
- Easy to clean
- Requires 3 x AAA batteries

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH1353	$16.90	$14.90	$13.90

DUAL SIDED MAGNIFYING MIRROR

Never have trouble putting in those contacts or applying your make-up again. This dual sided mirror has one mirror at 1 x magnification and the other at 5 x magnification. The frame is rimmed with a LED light making it ideal to use at night or in poor light conditions.

- Mirror dimensions: 110(Dia.)mm
- Mirror and frame dimensions: 150(Dia.)mm
- Requires 3 x AA batteries (use SB2425)
- Dimensions: 180(L) x 110(W) x 200(H)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Magnifying Mirror	GH1067	$36.90	$33.20	$29.50

Novelty

REMOTE CONTROLLED SECRET FARTER

Hide the box near your intended victim and activate it from up to 15 metres distance with your remote control button. Not only will they be embarrassed, they won't even know who is responsible. Great fun at home or the office.

- 7 different realistic fart noises
- Requires 4 x AA batteries
- 1 x 12V battery for key fob (supplied) Use SB2376

	Cat.	Qty 1+	Qty 3+	Qty 6+
Secret Farter	GH1088	$24.90	$22.30	$19.70

Sea Scooters

YAMAHA POOLJET SEA SCOOTER

NEW

The new Yamaha POOLJET sea scooter is designed for family water fun. Cruise around the pool or lake at speeds up to 2km/h. The POOLJET is loaded with safety features including a protective grill and auto shut-off dual trigger control. Suitable for adult supervised youngsters aged 5+.

- Runs up to 30 minutes with normal use (continuous use up to 20 mins)
- Recharge time approx. 2-3 hours
- Speed up to 1.2mph / 2.0 km/h
- Compact design, fully waterproof construction
- Positive buoyancy
- Weight only 1.6kg
- Dimensions 270 x 262 x 202mm

Not available in New Zealand

monthly specials & promotions
Lookout for our monthly promotions in store and online.

Health & Fitness

SPORTS STOPWATCH

This handy 1/100th of a second sports timer will be a useful addition to any sports bag. Not only does it measure elapsed time for up to 24hrs, our water resistant stopwatch has a split time (Lap) function as well as alarm and calendar functions.

- Dimensions: 55(W) x 65(H) x 15(D)mm
- Includes 600mm lanyard

THOUSANDS SOLD!

	Cat.	Qty 1+	Qty 3+	Qty 6+
Stopwatch	XC0270	$15.90	$13.70	$12.30

NON CONTACT BODY THERMOMETER WITH SMARTPHONE APP

A fantastic solution for parents - a thermometer to read your child's temperature instantly! No need to wait up to five minutes with a thermometer in your child's mouth for an accurate result, this non-contact thermometer uses infrared radiation to instantly and accurately measure both body temperature and surface temperature. Use it to ensure you heat up your child's food to an acceptable temperature using the surface temperature mode, and then use the body temperature mode to check if your child is running a fever. It's so effective in fact, that the United States FDA has given their stamp of approval on it! If all that wasn't enough, there is even the ability to link the unit to your iPhone® or Android® Smartphone, and using a free App you can track your child's temperature over time (and more!). See our website for info on the app.

SPECIFICATIONS	QM-7201
Temperature Range	0°C-50°C (32°F - 122°F)
Accuracy	±0.3°C
Response Time	0.5 sec
Power Off	Automatic
Measuring Distance	50-150mm
Dimensions	145(L) x 57(W) x 35(D)mm

1 YEAR WARRANTY

	Cat.	Qty 1+
Body Thermometer	QM7201	$59.90

Electric Candles

LED CANDLE SET WITH REMOTE CONTROL

The ultimate in mood lighting without the safety hazard of real candles. A small, medium, and large candle is included for an authentic look, while a remote control gives you easy control. No more blowing wax all over your furniture to turn them off! Require 3 x AAA batteries.

- 3 x LED candles (short, medium, tall)
- On/off remote control
- Requires 3 x AAA batteries (not included)

	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST3960	$28.90	$25.90	$22.90

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For next day delivery, or Click and Collect, see page 5

Quadcopters

2.4GHZ MICRO R/C QUADCOPTER

So tiny! It's just 30mm wide, it's so small it can fit inside the remote control! That doesn't mean it lacks features though. This micro quadcopter has automatic 360° flip functionality for amazing flight tricks, as well as a 1-key return function. When you're done, put it back inside the remote! So amazing to watch, and very entertaining to fly. The 2.4GHz remote provides stable control communication too. Includes spare rotors.

- 6-axis
- 360° flip
- 1-key return
- Stores in remote control

PRICE | FEATURES | SKILL LEVEL | BEGINNER

	Cat.	Qty 1+
	GT4214	$33.90

2.4GHZ MINI R/C QUADCOPTER

Now you can show off your crazy pilot skills, even if you don't really have any! This amazing quadcopter features one-touch 360° flip action sure to impress. It also features headless flight mode, and return to home functions. It's compact in size, but provides you with loads of entertainment! USB recharger included, along with 4 spare rotors.

- One-key flip
- Headless mode
- 6-axis
- Return to home

PRICE | FEATURES | SKILL LEVEL | BEGINNER

SPECIFICATIONS	GT4190
Batteries	Quadcopter: 3.7V @ 150mAh Rechargeable Remote Control: 2 x AA Batteries (not included)
Weight	23g (including battery)
Dimensions	82(W) x 82(D) x 33(H)mm

	Cat.	Qty 1+	Qty 3+
	GT4190	$45.90	$40.90

2.4GHZ R/C QUADCOPTER WITH CAMERA AND IR BATTLE MODE

Have you ever thought about having a battle game with your friends or families? This DIY Battle drone can help you achieve it. First build the drone with very easy to read instructions. The drone features 2.4GHz communication, gyro-stabilization for a smooth flight, and a durable construction to withstand some harsh crash landings. Take aim at your enemy and be the first to land, 4 direct hits to take them down. Time to battle!

- Battle mode: Great fun of battling with your families and friends
- Fun of Battling: Every hit the drone will show different responses. After 4 hits, drones slowly land and shut off. Kindly refer the user manual for shooting steps.
- Great stability: The 6-Axis gyro and altitude hold mode helps you operate the battle drones and build your flying skills!
- Multi-functions: High/medium/low speed mode, 3D flips and one button take off / landing / emergency stop functions.
- Headless mode: Completely solving "loss of orientation" problems.

Note: iPhone® not included.

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

SPECIFICATIONS	GT4220
Drone battery	3.7V 350mAh LiPo (about 10.5g)
Battery size	38 x 20 x 7mm
Charging time	About 50mins by USB
Flying time	About 6-7mins
Control Range	Around 40m
Controller battery/pcs	3 x AAA battery (not included)
Function:	Up/down, turn left/right, forward/backward, left/right sideward flight, 3D flips, headless mode,
Drone weight	About 27.5g (without battery)
Product size	105(L) x 105(W) x 50(H)mm

	Cat.	Qty 1+	Qty 3+
	GT4220	$69.90	$62.90

Important Safety Information!
In operating drones you become a pilot with responsibilities and must comply with rules set by relevant government authorities. Before you fly a drone be sure to check out the safety information guides put out by the relevant authorities shown below. You can download these guides from our website, pick up the guide in our store, or by visiting the following websites:
AU: www.casa.gov.au/rpa
NZ: www.caa.govt.nz/rpas

Peter Condie likes to

think. possible.

"My favourite piece of current technology is electric powered autonomous mass transit vehicles. I think these will be become larger, faster and sophisticated enough to be able to operate in more uncontrolled environments such as public, high speed motorways."

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Quadcopters CONTINUED

2.4GHZ R/C QUADCOPTER WITH 720P CAMERA AND WI-FI FPV

A powerful quadcopter for hours of fun in the sky! It uses your own smartphone's capabilities to provide FPV video streaming via Wi-Fi from the on-board camera. A mount is provided to fasten your phone to the remote. One very cool feature about this quadcopter is the altitude-hold function, which can be great for enhancing stability of video. The quality HD camera provides high image quality. USB recharging (for quadcopter) and spare rotors included.

- 6-axis
- Built-in HD camera
- WiFi
- Altitude hold

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

SPECIFICATIONS	GT4194
Batteries	Quadcopter: 3.7V 500mAh Rechargeable Remote Control: 3 x AA (not included)
Weight	87g (including battery)
Dimensions	280(W) x 280(D) x 90(H)mm

	Cat.	Qty 1+	Qty 3+
2.4GHz Wi-Fi FPV Quadcopter	GT4194	$119.00	$106.90
Spare Parts	Cat.	Qty 1+	Qty 3+
Spare Battery	GT4195	$10.90	$9.90
Spare Blades	GT4191	$5.60	$5.00

2.4GHZ MOTION ACTIVATED QUADCOPTER

This is definitely a unique quadcopter with one key motion control instead of a traditional remote controller. You control it by gesturing with one hand and using the one button on the mouse looking controller. It has altitude hold and flies exclusively in headless mode which makes learning to fly this unique drone a bit easier. Once you have that down pat hit the forward button to flip and presto you are looking like you have been flying for years. This is an inexpensive quadcopter that is great for the novice.

- Motion Controlling, 360° flips
- Auto take off & landing, turning & speed adjust
- 2.4G radio control distance about 20m
- 3.7V 280mAh rechargeable Li-po battery for about 5-8mins flying time
- 3xAAA battery needed for transmitter (not included)
- Lightweight and durable materials

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

SPECIFICATIONS	GT4224
Batteries	3.7V 280mAh rechargeable Li-po
Dimensions	155(L) x 155(W) x 35(H)mm

	Cat.	Qty 1+	Qty 3+
	GT4224	$69.90	$62.90

OBSTACLE AVOIDANCE QUADCOPTER

NEW

A fun and easy to fly drone with intelligent obstacle avoidance. At the click of a button on the remote control, the drone will take off or land. Once the drone reaches is about 1m off the ground it will hover, spin and initiates an infrared ranging function. Change the drone's direction with gesture controls by simply using your hands. When your drone is 100mm away from your hands or other solid objects it will fly in the opposite direction. Charge via USB.

- Altitude Hold
- Intelligent obstacle avoidance
- Easy take off and land
- Dimensions: 110(Dia.) x 40(H)mm

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

	Cat.	Qty 1+
	GT4244	$45.90

R/C Helicopter

MOTION CONTROLLED HELICOPTER

NEW

A great choice for beginners. The coaxial-rotor design offers more stable performance and make easier operation of the helicopter. One key motion control instead of a traditional remote controller. Features altitude hold, and is controlled by gesturing with one hand like a wizard, and using the one button on the mouse-style controller.

- 2.4GHz channel R/C helicopter
- Altitude hold function for added flight stability
- Forward, Backward, Up/Down, Turn left-right
- Dimensions: 230(L) x 110(H) x 40(W)mm

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

	Cat.	Qty 1+
	GT4243	$45.90

R/C Accessories

SCOREBOARD GATES

NEW

Ready set go. Time to hone your flying skills and see who can score the most points. Once the drone flies through the gates the scoreboard will count. Suites all drones which are smaller that 30cm.

	Cat.	Qty 1+
	GT4242	$22.90

For next day delivery, or Click and Collect, see page 5

R/C Cars

3-IN-1 R/C QUADCOPTER, TANK & CAR WITH CAMERA AND FPV

This 3-in-1 RC vehicle ticks all the boxes and gives you some real RC fun with an awesome quadcopter, a tank, and a jumping car at the same time. Whether you feel tired of flying, driving or jumping, transform it into another shape and explore more fun. Thanks to the WiFi camera, you can enjoy the FPV within about 50m and record the stunning moments from the sky, on the ground, or in mid-air with your phone.

- 3-in-1 RC vehicle, i.e. more fun, including aerobatic maneuvers, running, and jumping
- 0.3MP camera presents the real-time FPV on your phone via Wi-Fi connection
- Altitude Hold allows you to capture every memorable moment clearly and smoothly
- Headless Mode makes it unnecessary to take the orientation into account
- One Key Takeoff / Landing / Return makes it much easier for beginners to fly
- Drone mode: compass mode, one key take off, one key landing, altitude hold mode, emergency stop, Wi-Fi
- 0.3mpx camera
- Tank mode: forward/backward, turn left/right
- Jumping car mode: forward/backward, turn left/right, jump

Note: Smartphone not included

PRICE | FEATURES | SKILL LEVEL | BEGINNER

SPECIFICATIONS	GT4222
Control Range	Around 100 metres
WIFI transmission range	50m
Battery	3.7V 950mAh lithium-ion
Play Time	About 10mins
Charging Time	120mins by USB Charger
Controller battery	4 x AA battery (not included)

	Cat.	Qty 1+	Qty 3+
	GT4222	$149.00	$133.90

HI-CALIBRE 27/40MHZ REMOTE CONTROL CAR

These highly detailed 1:58 scale sports cars feature working LED headlights and red reverse lights, and come with 4 tiny red witches hats for refining your driving skills or for simply making mini crashes more dramatic. The car, remote control and witches hats all fit snugly inside the Hi-Calibre shell. The cars are recharged by plugging into the remote control. Choose between 8 different colours, and two frequencies (27MHz or 40MHz) so you can race two at the same time.

- Adjustable/detachable antennas
- Remote requires 2 x AA batteries
- Charge time: 5 minutes
- Remote control: 27MHz or 40MHz
- Suitable for ages 3+
- Car dimensions: 75(W) x 35(W) x 20(H)mm approx.

	Cat.	Qty 1+	Qty 3+
1:58 Scale	GT4205	$22.90	$20.90

1:10 R/C DRIFT UTE

NEW

This model is the latest development of 1/10 scale on road drift UTE with LED lights. The Racing Drift X car is electrically powered and perfect for indoor or outdoor drifting. Swap out the tyres from hard to soft to get extra grip.

PRICE | FEATURES | SKILL LEVEL | BEGINNER

SPECIFICATIONS	GT4233
Frequency	2.4GHz
Charge Time	4-5 Hours
Playing Time	15 Minutes
Control Distance	35-40 metres
Speed	20-25km/h

	Cat.	Qty 1+	Qty 3+
	GT4233	$94.90	$84.90

Ahmad Mollahassani likes to

think. possible.

"'Artificial Intelligence' is growing fast towards understanding every things' behaviour, which makes mankind become capable of predicting the next situations or behaviours of things/ creatures based on its giant database. It will be used everywhere important: in healthcare, security issues, defence, manufacturing, construction, buildings' stability, sport, agriculture and so forth."

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R/C Cars CONTINUED

1:22 BUGGY RACING R/C CAR

NEW

This R/C car will provide hours of fun with its oversized tyres and quality suspension, helping it to run on variable terrain. The quality 2.4GHz trigger-style remote provides you with great range and control. Recharge the car via USB, just install your favourite AA batteries in the remote. (AA Batteries Not included).

- Up to 20km/h
- Suspension
- Over-sized tyres

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

	Cat.	Qty 1+
	GT4238	$33.90

1:18 4WD R/C OFF-ROAD BUGGY

NEW

An awesome remote control off-road buggy approximately 1:18th scale. It has dual-motor drive, with one in the front and one in the back, for full time 4WD! Over-sized tyres and big shock-absorbers for maximum clearance. Imitation roll cage completes the look making it just like a dune-dwelling, rock-crawling buggy in the real world! The trigger-style remote control provides fast and precise action. Hours of fun, with rechargeable battery pack and recharger included.

PRICE | FEATURES | SKILL LEVEL | INTERMEDIATE

	Cat.	Qty 1+	Qty 3+
	GT4236	$45.90	$40.90

TWISTER R/C STUNT CAR

NEW

This rechargeable RC car avoids getting stuck by flipping over once it hits an obstacle. Marvel as you easily perform 360° spins, tricks or race up to 12kmh. Supplied with USB charging cable, rechargeable battery pack for the vehicle and 2 x AA batteries for the remote control.

- Charge via USB
- 2.4GHz remote includes batteries
- LED lights in tyres
- 15cm long
- Play Time 20+ mins
- Charge time 100 mins
- Ages 6+

PRICE | FEATURES | SKILL LEVEL | BEGINNER

	Cat.	Qty 1+
	GT4237	$45.90

MINI R/C ROBOT

NEW

A mini remote controlled robot that is very easy to operate. Use the supplied infrared remote control to drive the robot straight forward or backward with a right turn, from up to 10m away. The soft drink packaging appearance makes it a great gift. Available in blue or yellow, and recommended for ages 5+.

PRICE | FEATURES | SKILL LEVEL | BEGINNER

SPECIFICATIONS	GT4217
Batteries	Robot: 3 x LR44 Button Cells (included) Remote Control: 2 x AAA (Not included)
Weight	42g
Dimensions	76(H) x 63(W) x 42(D)mm

	Cat.	Qty 1+	Qty 3+
Each	GT4217	$16.90	$14.90

2.4GHz ultra-fast r/c truggy

This is an ultra-fast truggy, with a top speed of 38km/h! Hours of high speed fun, with quality sealed ball bearings, and metal hardware in many places for durability. The 2.4GHz trigger-style remote provides fast and simple control, while 2.4GHz communication allows fantastic range. Powered by an ultra-light Li-ion rechargeable battery for fast recharging and high speed. Includes recharger (remote requires 2 x AA batteries, not included).

PRICE | FEATURES | SKILL LEVEL | ADVANCED

2.4GHZ ULTRA-FAST R/C TRUGGY
GT4209
Features:
- 38 km/h top speed
- Sealed ball bearings
- Metal parts

SPECIFICATIONS	GT4209
Batteries	Truggy: 9.6V @ 700mAh Li-Ion Rechargeable Remote Control: 2 x AA (Not Included)
Weight	102g (Including Battery Pack)
Dimensions	340(D) x 266(W) x 130(H)mm

	Cat.	Qty 1+	Qty 3+
1:12 Scale	GT4209	$139.00	$124.90
Spare parts	Cat.	Qty 1+	Qty 3+
Spare Battery	GT4210	$28.90	$25.90
Spare Shell	GT4211	$16.90	$14.90
Upper / Lower Control Arms - Pair	GT4213	$14.90	$13.90

For next day delivery, or Click and Collect, see page 5

Fun & Games

LASER TAG BATTLE GUN 2 PACK

NEW

Video game action leaps off the screen and into your backyard. Players 1, 2, 3, and 4 have entered the battle! With built-in infrared receivers to track hits, and multiple gun modes to use in combat, these guns will keep everyone active and moving around.

- Sound effects, vibrations, and lights
- Life Indicator
- Team Selector by colour – up to 4 teams
- 4 Gun Modes – Single shot – Laser Gun – Machine Gun – Plasma Gun
- Tracks lives and ammunition and allows for 3 additional lives
- Interactive Voice coach gives tips and feedback during the game
- Cheating-prevention system only allows a player from the opposite team to revive an eliminated player
- Rifle design with 2 colours per box
- 60m Shooting range detection range lets players take out opponents from a distance
- For ages 8 and up
- 4 x AA Batteries required per gun (Batteries not included)

	Cat.	Qty 1+	Qty 3+
	GT4074	$99.90	$89.90

STOMP FLYER AIR POWERED ROCKET LAUNCHER

NEW

Here's a great way to get the kids away from the screen and into the outdoors for some fun. Slide the foam rocket onto the launcher, stomp your foot on the air pump and watch the rocket shoot up to 20 metres into the air. Supplied with three rockets and spares are available separately. Recommended for ages 6+.

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rocket Launcher	GT3018	$16.90	$14.90	$13.90
3Pk Spare Rockets	GT3019	$7.90	$7.10	$6.30

Jeremy Robinson likes to

think. possible.

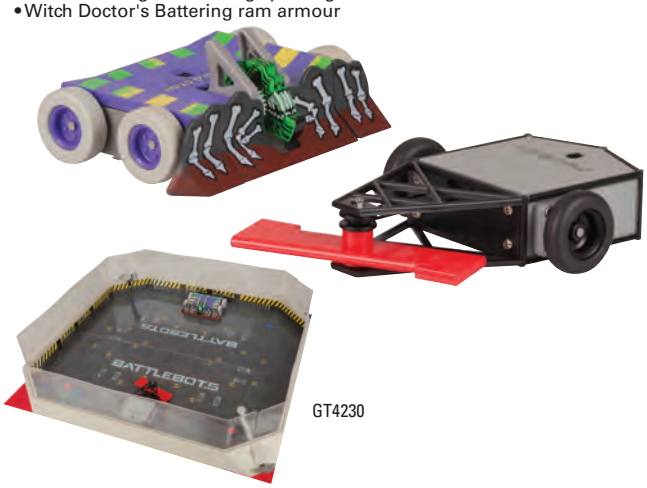
"the humble light globe has only begun its evolution. in 5 years led lights and led projectors will merge, think of a light that can not just illuminate but also display colours and shapes projection mapped to your room. it will be video posters and interactive wallpaper and live windows"

BATTLEBOTS® ROBOTS

NEW

Fight your way to the brink of destruction with vicious head-to-head combat! Inspired by television's most entertaining robot showdown comes miniature versions of the merciless machines you know and love, HEXBUG® BattleBots® Rivals™ !

- Two I/R Remote Controls w/ Button Activated Weaponry
- Magnetized and snap-together pieces fly off on impact
- Tombstone's grave-making spinning blades
- Witch Doctor's Battering ram armour



GT4230

	Cat.	Qty 1+
2 x Battlebots (No Arena)	GT4229	$94.90
2 x Battlebots with Arena	GT4230	$119.00

INFRARED GUN & MECHANICAL ALIEN BUG SET

At 40m striking distance with vibration attacking alert, you can pick any battleground to test yourself in tricky scenarios. The alien bug pops belly up when shot on target, a few seconds later they pop back to life and scurry away. Purchase additional alien bugs (GT4073) available separately and blast away hours of fun. Once mastered, you can setup up to four teams for a laser tag with your human counterparts.

- Includes 1 x laser gun and 1 x alien bug
- Gun battery: Requires 4 x AA
- Bug battery: 3.7V 45mAh rechargeable/USB charging cable supplied
- Recommended for ages: 8+
- Gun dimensions: 300(L) x 172(W) x 52(D)mm
- Bug dimensions: 75(L) x 57(W) x 45(H)mm

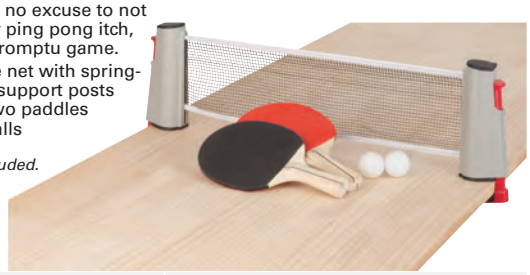
	Cat.	Qty 1+	Qty 3+
Gun with 1 Alien Bug	GT4072	$69.90	$62.90
Additional Alien Bug	GT4073	$24.90	$22.50

ANYWHERE TABLE TENNIS

The kit includes a retractable net that extends up to 1.7m with spring-loaded posts to hold firmly in position. Of course this isn't handball, so you also get a mesh bag with two paddles and two ping pong balls. Now there's no excuse to not scratch your ping pong itch, with an impromptu game.

- Collapsible net with spring-clamp net support posts
- Includes two paddles and two balls

Table not included.



SPECIFICATIONS	GH1162
Max Net Width	1.7m approx
Net Height	150mm from table (approx.)
Maximum Table Thickness	50mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
Table Tennis Set	GH1162	$24.90	$22.40	$19.90
Ping Pong Balls - Pack of 6	GH1163	$11.90	$10.90	$9.90

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Freight information: Simply add the amount shown in the freight charges chart above. Don't forget to add extra amount for insurance if you require this service.

Final check: Please make sure that you have given full details of the products you require, the correct prices, the full postage or transportation cost, plus make sure that your name and address are legible. Your order will arrive faster if all details given are correct. Minimum order is $10.

14 day satisfaction guarantee: Provided that you have returned the goods in original condition (and that means the outer package, if any, must be unmarked). You must keep your invoice as proof of purchase. We will not refund post, packaging insurance or other transport charges. Freight on returned goods must be pre-paid. Do not return goods by COD. Please do not ask for a refund after 14 days from purchase date (this allows for transportation delays).

† One whole dollar per $100 goods value or part there of. See Terms & Conditions for details.

^POA: Our staff will calculate the freight charge based on the order, freight method and destination. Staff will promptly contact you to advise of the charge.

All prices are in New Zealand Dollars

For next day delivery, or Click and Collect, see page 5

DISCLAIMER All possible care has been taken in the preparation of this catalogue. However, specifications and particulars in relation to the products referred to in this catalogue are subject to change without prior notice. Some photographs contain samples which are representative only. Stocked item may vary in colour and look. Jaycar will not be held liable for any errors or omissions.

PRICES All prices quoted in this catalogue include Goods and Services Taxes (GST) and are current at the time of printing. So you can be confident of price stability. At Jaycar, we make every endeavour to maintain prices for the life of the catalogue. However, factors beyond our control (such as changes in foreign currency exchange rates, changes in base material costs etc.) may vary costs and we reserve the right to amend prices accordingly.

STOCK AVAILABILITY At Jaycar we are constantly seeking new products and due to the rapid developments within the electronics industry some products in this catalogue may become obsolete or discontinued during its life. In the event of this happening we apologise for the inconvenience and where possible will substitute a similar product of equal or better quality.

OUR RAINCHECK If your local Jaycar store has sold out of a currently advertised line, we will be happy to issue you with a 'raincheck'. When the stock arrives and you can buy the original item (or its comparable product) at the advertised price - even if the original promotion has ended. 'Rainchecks' do not apply to items that have been advertised as 'limited', 'discontinued', 'surplus' or 'clearance' ranges.

'CHANGE OF MIND' RETURNS Although not obligated to do so, at Jaycar we appreciate that you may have second thoughts about your purchases and will give a 'Change of Mind' refund if goods* are returned within 7 days (14 days for mail order and internet purchases). For 'Change of Mind' purchases, goods can only be accepted back for refund or exchange in 'as sold' condition including undamaged original packaging, complete instruction books, manuals, accessories, etc. If freight expenses of any type have been incurred, these are not refundable. We regret that any cash, credit card, or EFTPOS refunds over $999 must be refunded by cheque for security reasons. Jaycar does not provide credit notes. Your Sales Docket must accompany all returns.*Note: Refunds on 'Change of Mind' purchases do not apply to books, batteries, headphones, health products, semiconductors, computer software, all recordable media, some tools and non multimeter test equipment (including cathode ray oscilloscopes), step-down transformers (240-100V), some party lighting and associated products.

WARRANTIES Jaycar warranty period is 3 months from date of purchase, or such longer period as stated in this catalogue. Many products carry one year, two year, five year, or lifetime warranty or may qualify for over-the-counter replacement. These items are identified in the catalogue by the icons explained on page 4. If any defect in materials or workmanship in product sold by Jaycar is identified and notified to us within the warranty period then we will, at our discretion repair or replace the product. Jaycar does not accept any liability beyond this for consequential loss. Warranty is subject to us being satisfied that a defect was caused by defective workmanship or materials and was not caused by or was not substantially contributed to by other factors beyond our control, including (but not limited to) defective installation, maintenance, or repair; alterations or modifications of the product in a manner not recommended by the manufacturer; or any neglect, misuse or excessive use. The original Sales Docket or cash receipt must accompany warranty claims to provide starting date of the warranty period.

KIT WARRANTY Most kits are successfully constructed with few problems however, once the kit is under construction all warranty is void, as we cannot guarantee assembler's workmanship or components that have been used.

STATUTORY WARRANTIES Any statutory warranties applicable to your purchase will be honoured by Jaycar in addition to the warranties set out herein. If there is any conflict between any warranty herein contained and a statutory warranty, the terms of the statutory warranty will prevail.

FREIGHT CHARGES RELATING TO WARRANTY ITEMS Warranty repairs or replacements of goods is free of charge however freight charges to and from the service department is required to be paid by the customer.

TRADE CARD If you are professionally engaged in some aspect of the electronics industry on a daily basis, you may qualify for a Jaycar Trade Card. This facility is available in every store including TECHSTORE, to provide you with the opportunity to purchase at special trade prices. Simply call into your local Jaycar store and ask the manager or if you are a TECHSTORE customer email us at techstore@jaycar.co.nz. We can provide you with convenient locations, fantastic service and great prices! (Not available for transactions outside Australia and New Zealand.)

REWARDS CARD For a full list of terms & conditions go to www.jaycar.co.nz/rewards

ACCOUNT FACILITIES Jaycar is happy to provide account facilities for the following organisations:

- Schools (Government & non-Government), TAFE, Colleges and Universities
- State & Federal Government Depts, including research facilities
- Hospitals
- Mining companies
- TV & Radio Stations
- ALL public ('LTD') companies

ALL 'Pty Ltd' companies, Sole Traders or Partnerships must complete an account application form. Simply go online to apply https://jaycarnz.applyeasy.com.au/credit or write to 'The Financial Controller', PO Box 12241, Penrose, Auckland 1642 New Zealand. If you are one of the above you can buy from us on a 30-day (strictly from invoice) account. The invoice will go with the goods or to your accounts payable office (you nominate). Non Payment of monies due will be cause to discontinue supply and to commence recovery procedures.

RECOVERY OF MONIES OWED In the event that Jaycar needs to recover monies owed then the full balance on the account becomes due and payable and all costs of recovering this money will be borne by the debtor.

TECHSTORE - MAIL ORDER & INTERNET PURCHASES For Mail Order & Internet Purchases special conditions apply:

Goods - Aerosols, flammable, heavy and bulky items cannot be sent by post.

Payment - via cheque, money order or credit card (MasterCard,Visa, American Express), Pay Pal, or Zip Pay.

Minimum Order Value - Mail order purchases have a minimum order value of $10.

International Orders - Please remember you may have to pay customs and importing charges at your end (if applicable). We cannot supply full customs documentation, but all parcels include required customs dockets. Should you require to return goods for any reason from outside Australia it is essential that customs documentation is included. If customs dockets are not included it can be a costly exercise to have the goods cleared by Customs and the customer must pay this charge. Failure to include customs documentation may result in long delays. Note: Jaycar cannot accept any responsibility or liability for the suitability of any product for use outside Australia, nor its compliance with local regulations.

Freight - Various freight options and rates are given on the order form. After selecting the freight option that suits you, please clearly mark it and add these additional changes to the total on your order. Goods cannot be delivered to a PO box via road or air courier service.

Missing or Damaged Goods - At Jaycar, we've sent out hundreds of thousands of parcels via post over the last 30+ years and the number of items that have been genuinely lost is less than 0.001%. We've found road and air transportation equally as reliable. However it must be emphasised that our responsibility for the goods ceases when the goods are handed over to the nominated carrier. Risk on the goods passes to you when the goods leave our warehouse. Our order form allows you to elect to have goods insured against loss in transit at your cost otherwise loss of goods in transit is at your own risk. All claims for missing and damaged goods in transit must be lodged with the carrier or local Post Office. If goods have been insured please contact Jaycar.

Insurance - If you wish to insure, it will cost $1 for every $100 value or part thereof eg. If your order is for $145 the insurance will be $2. This insurance covers goods DAMAGED in transit. We do not automatically issue insurance unless you specify. If you don't mention insurance you will NOT be insured.

Out of Stock Items - Are not automatically back ordered. Please re-order once item(s) are in stock.

STORE LOCATIONS AND HOURS Store locations and hours are located on the back of this catalogue and were correct at time of print. For new stores and current trading hours visit our website at www.jaycar.co.nz/store-finder.

ANY PROBLEMS We are proud of our standing with our Customers and are keen to get any feedback, good or bad, to improve our service, products, stores - or any aspect of our business. So please, do not hesitate to contact us.

JAYCAR AUTHORISED RESELLERS / WHOLESALE ENQUIRIES A listing of Jaycar Resellers in your area can be found on the inside back cover of this catalogue. For new Resellers visit our website at www.jaycar.co.nz/store-finder. If you are a reseller of electronics goods you may be able to increase your income by reselling Jaycar products. For more information contact The Reseller Manager on 0800 235 328 or email sales@techbrands.co.nz. For wholesale enquiries, please refer to our main supplier Electus Distribution (Australia: 1300 738 555 & New Zealand: 0800 235 328).

PRIVACY POLICY Jaycar Pty Ltd (Jaycar) is committed to protecting the privacy of all individuals. To deliver our commitment to privacy, we will comply with the legislation and regulations of the countries in which we operate. This statement provides a succinct overview of how we handle personal information. Our complete Privacy Policy can be accessed on our website. Both this Condensed Privacy Policy and the complete Privacy Policy were updated March 2014. Refer to our website for most recent amendments https://www.jaycar.co.nz/privacy-policy. As an Australian registered company, Jaycar is bound by the current Privacy Act, any amendments and the Australian Privacy Principles (APPs) contained within that Act. All employees and officers of Jaycar are required to comply with the Act and this Privacy Statement.
Jaycar has a Privacy Act Procedure which can be obtained by emailing privacyofficer@jaycar.co.nz. Information or opinions which are collected, held, used or disclosed by Jaycar about an individual whose identity is apparent, or can reasonably be ascertained, will be protected by the standards outlined in this Statement. To deliver our commitment to privacy, we will:

- Be bound by, and comply with, the APPs under the Act in relation to personal information communicate this Privacy Statement to all employees and stakeholders to ensure awareness of their requirement to comply with our privacy standards and to anyone else who asks for it
- Ensure lawful, fair and unobtrusive means are used to collect personal information that is necessary for our business purposes
- Collect sensitive information only with the individual's consent and not disclose any personal information to an unrelated third party, except with the individual's consent or where we are required to do so by law
- Take reasonable steps to destroy or de-identify personal information in a secure manner when we have no further need for it or are required to do so by law
- Ensure only authorised personnel who have agreed to keep personal information confidential have access to the information
- Take reasonable steps to keep personal information up to date, accurate and complete
- Provide individuals access to their personal information on request
- Periodically review and revise this Privacy Statement and related procedures to maintain relevance.

Jaycar recognises and respects the importance of each individual's privacy. This Statement and related procedures ensure all personal information held by Jaycar is handled appropriately and kept confidential.

What do we use personal information for? Any personal details you provide will be used for the purpose of dealing with your request, enquiry, transaction or application for employment. This may involve disclosing your personal information to companies within the Jaycar Group, or to service providers who assist us in operating our business. These organisations are required to comply with the principles of this Statement.

Data Security We take steps to protect the personal information we hold against loss, unauthorised access, use, modification or disclosure, and against other misuse. When the personal information that we collect is no longer required, we destroy or delete it in a secure manner, in accordance with our documented procedure.

Your Choices You can access the personal information that we hold about you, and you can ask us to correct the personal information we hold about you. For more information, see our complete Privacy Policy which located on our website. If you are listed on one or more of our media or network email lists you can opt out at any time. You can unsubscribe by using the 'unsubscribe' link in our emails.

Our Obligations Jaycar is bound by the information Privacy Principles in the Privacy Act. For more details see our complete Privacy Policy on our website.

How to Contact us For further information contact us on privacyofficer@jaycar.co.nz or alternatively you can write to Privacy Officer, Jaycar P.O. Box 12241 Penrose 1642, Auckland.

LEGAL JURISDICTION Jaycar operates under the laws and regulations of the State of New South Wales, Australia. Therefore any legal disputes will be conducted in courts or tribunals situated in New South Wales and under the laws and regulations of New South Wales, Australia.

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12-14/56-58 Athllon Dr,
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Email: techstore@jaycar.co.nz
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Fax: (09) 276 1257
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MON-FRI: 8.30AM - 5.30PM
SAT: 8.30AM - 5.00PM
SUN: 10.00AM - 4.00PM

Individual store hours may vary, check website for details. For Public Holidays & late night trading hours check our website:
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the hub by jaycar

The hub by jaycar is an exciting new retail concept store being launched in May this year.

Located at Central Park Mall, Broadway near Sydney's CBD, *the hub* will combine a traditional retail store with modern collaborative and maker spaces dedicated to the electronics enthusiast.

It will carry around 75% of the standard Jaycar range along with some new & exciting products curated specifically for *the hub*.

The maker space will be a full hands-on experience, where customers can design and build projects utilising some of the latest workshop machinery including PCB, Laser and 3D printers. There will even be facilities on site to store projects and tools mid-project.

The hub will also run regular workshops so customers can learn about Arduino, networking and getting the most out of their tech at home, it will also be an incubator for new project ideas built on Arduino and Pi platforms.

Apart from the physical store at Broadway, *the hub* is also a virtual space where electronics makers can come together and be inspired, share ideas, projects and more.

Watch this space…

A full list of Jaycar Stores & Authorised Resellers is on the inside of this catalogue.

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